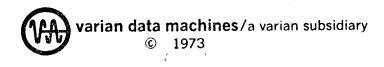
VARIAN 620/L-100 MAINTENANCE MANUAL

Specifications Subject to Change Without Notice



SALES ORDER: 37-16986 DATE: FROM: C. M. FUJIOXA PRIMP DESCRIPTION & HOTES This 620/L-103 has been modified per VID document . #998712-01. The memory timing and control board (slot 6) has a bootstrap leader protect option (DM-395A) protecting addresses 0 to 778 and the upper 1008 locations. NOT SC A LE DRAWN DATE: DRAWN DATE APPROVED DATE CODE CHECKED DATE APPROVED DATE CODE CHECKED DATE APPROVED DATE CLASS SYSTEM MEMO NOT OTHERWISE SPEC: FRAC & ANG & SCALE TIM V DEC X & XX	-	CUSTOMER:VID		END U	SER: VID		
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VENDOR: VDM IRVINE VDM MODEL E-2861 B 03-9981 This consists of: 1) 620L-103 16K CPU 2) E 2847 BOOTSTRAP PROTECT (03-998 116) 3) LESS THE FOLLOWING: PRIORITY INTERRUPT MODULE (PIM) REAL TIME CLOCK FRONT PANEL, LATCH & HINGE BRACKETS N DOCUMENTATION & TAPES (See Note 2) S C NOTES: Test unit with front panel, then remove panel. VDM/PA will A install adapter board to permit operation without front panel. Does not include program tapes or listings. Only documentation required is Maintenance Manual, Volume 2. D R SPEC CONTROL DRAWING DATE APPROVED DATE CODE DRAWN DESCRIPTION OF CHANGE 11/1/72 R.Anderson APPROVED -DATE CLASS CHECKED DATE 11/10/12 620 L CPU for VID (GATOR) NOT OTHERWISE SPEC: FRAC ± ANG ± SCALE 315.1.1 FIN. V DEC .X ± DET 11/ 47 ± XXX. 1.7 7111 CHK 03-998114 1, , VDM/Palo Alto DATE varian DRAWING NO. REV DIVISION SIZE

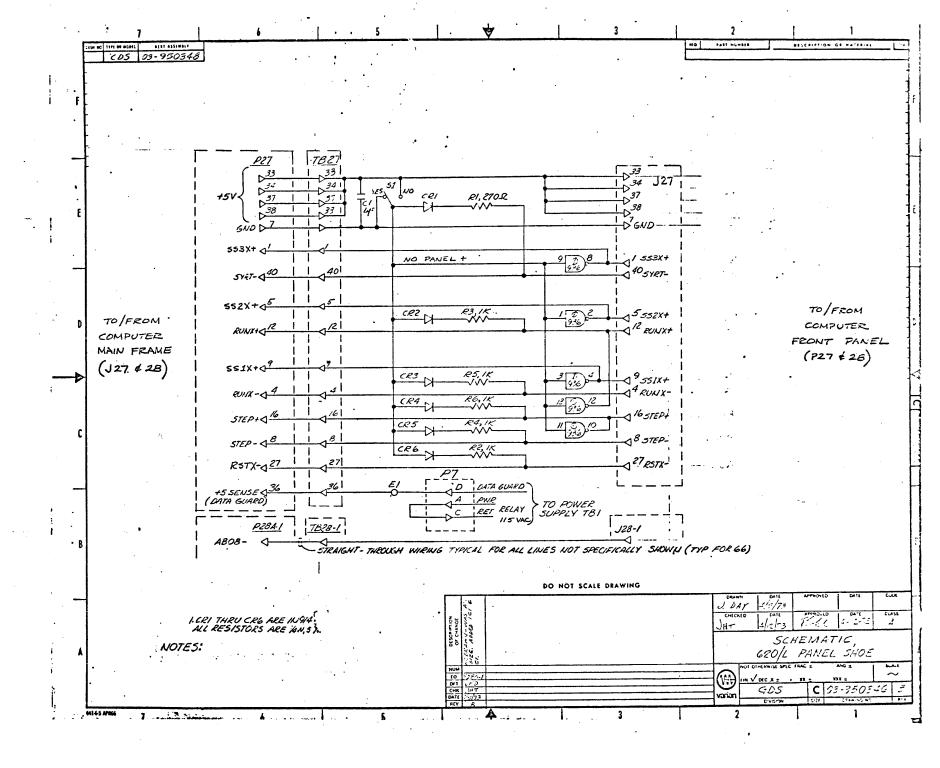
03-950670

620/i and 620/L Power Failure/Restart Manuals

98 A 9902 442

February 1972

Not only must the PF/R threshold be readjusted when the power supply and/or the PF/R card is changed, it must also be readjusted whenever a change from 50 to 60 Hz (or vice versa) operation is made, or whenever there is an increase in the load on the +5V dc supply.



VENDOR:

VDM IRVINE

VDM MODEL E-2847 Loader Protect

This is Loader-protect option for 620L-100 (Model 620L-115) with following modification:

Locations 0 to 77 $_8$, inclusive, are protected in the same manner as the upper 400_8 locations.

Any attempt to write in the locations specified above will be converted to a read cycle. No HALT or interrupt will be generated.

The purpose of the additional protection is to preserve the Power-on interrupt locations and the GATOR manual-interrupt location (0).

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ENGINEERING DATA FORM

OPTION	Bootstrap Loader Protect
MODEL	
NO. OF LOGIC CARDS REQ'D	Assembled on the memory timing and control
NO. OF CARD SLOTS REQ'D	.]
LOCATION OF SLOTS (NUMBERING) ,	CPU Card Slot 6
CONNECTORS REQ'D. (EXCLUDING I/O),	N/A
KEYING	
ST'D. DEVICE ADDRESS	
WIRELIST NUMBER	N/A (PC Board)
MANUAL PUBLICATIONS NUMBER	This document
•	For test only: BIC and paper tape system
MFG'R	
MODEL	
GEN'L. SPECS	
⊢	
NOTES:	
Drawings:	
Top Assembly 44PC	
Logic Diagram 91D0	
Bracket Assembly 04C0	030
	A. Calle II
Software and test procedures are	part of this drawing.
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SECTION 1 GENERAL DESCRIPTION

The loader protect feature consists of additional logic located on the memory timing and control board plus additional backplane wiring to a switch. Drawing describes the modification procedure.

The purpose of the loader protect is to prevent writing into the last 400₈ locations of a selected 4K memory increment and locations 0 through 77₈ of the first 4K memory increment.

CODE IDENT NO. **21101**

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SECTION 2 FUNCTIONAL DESCRIPTION

The loader protect feature prevents writing into memory locations which are used by the bootstrap and binary load/dump routines. These locations are normally the last 400 octal addresses of the core memory. The loader protect circuitry is located on the timing and control card located in CPU card slot 6. The card contains jumper pads for the three most significant address terms (L12X+, L13X+, L14X+). Jumpers are installed at the factory or in the field when the system memory capacity exceeds 4K. Address may be adjusted to protect any memory increment from 4 to 32K.

NOTE: If no jumpers are installed, the last 400 octal locations of each 4K section is controlled by the loader protect circuitry. (See Table 1 for jumper configuration).

There is a switch mounted on the chassis inside the front panel that enables and disables the option.

There are no additional instructions or control terms for this option. All addresses for write type operation are compared for error. An error occurs whenever a write type operation is attempted in a protected area with the option enabled.

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SECTION 3 THEORY OF OPERATION

All addresses being accessed in memory are checked by the loader protect option. When the address being accessed is equal to that of a protected address, and LPEX+ (loader protect enable from switch) is true, and H2XX+ (decode for a store instruction) is true, then the WRTX+ (write control to memory) is forced to ground. This causes the memory cycle to be a read/restore cycle.

After an error, the WRTX+ signal will be forced to ground causing a read cycle, and the computer will continue to cycle, changing all write cycles in a protected area. During a trap-in operation, the read/write command (WRTX+) and the memory start pulse (MSPX+) are forced to the low state and the CPU continues to cycle.

3.1 TRAP-IN OPERATION

When executing a trap-in request with the option enabled, if the memory address provided by the trapping device is in the protected area, the following events occur. The read/write command (WRTX+) and the memory start pulse (MSPX+) are forced to the low state.

3.2 LOADER PROTECT ENABLE/DISABLE SWITCH

A toggle switch located on the chassis inside the front panel is used to enable the loader protect circuitry. When the switch is in the disable position, all memory locations are available for storage. However, when the switch is in the enable position, the loader protect feature prevents writing into the memory locations X7400 through X7777 and locations 0 through 778.

*X = 4K core segment

3.3 ADDRESS SELECTION

Table 1 shows jumper placement on the memory timing and control board for address selection. Typically, the system memo will specify the proper jumpering.



TABLE 1

MEMORY SIZE	MEMORY SIZE JUMPERS REQ		
	A-A	B-B	C-C
4K	No	No	No
8K	No	No	Yes
12K	No	Yes	No
16K	No	Yes	Yes
20K	Yes	No	No
24K	Yes	No	Yes
28K	Yes	Yes	No
32K	Yes	Yes	Yes

A-A, B-B and C-C are jumper pads for the three most significant address terms and are located on the memory timing control board.

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SECTION 4 MNEMONIC LIST

H2XX+

ICLX-

L02X+ through L14X+

LPEX+

MSPX+

TPIX-I WRTX+

Memory start pulse Trap-in

Inhibit clock

Store instruction decode

Memory address register lines

Loader protect enable from switch

Read/write command

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SECTION 5
TEST DESCRIPTION

5.1 PROGRAM MODE TEST

Using Aid II program with loader protect disabled write a fixed data pattern in locations 0 through 77 and X7400 through X7777.

i.e.
$$X = 0-7$$
 for $4 \rightarrow 32$ K I^E $4 = 0$ 1×7400 , $\times 7777$, $\times 177777$, $\times 17777$

Enable loader protect then write a different fixed pattern in locations 0 through 77 and locations X7400 through X7777.

Now verify that the original pattern did not get altered by reading locations 0 77 and X7400 X7777 and comparing it with the original pattern by using the search function of Aid II program.

If any errors occurred, they will be listed as follows: There should be no errors.

i.e.
Address Contents
000043 (000000)

5.2 TRAP-IN TEST

Using the Aid II program load the following program into core starting at location 100.

CODE IDENT NO. **21101**

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100 101	100021 006010	Initialize BIC LDAI
102	0	•
103	006020	LDBI
104	-77	
105	101537	Sen Buff Ready
106	000111	
107	001000	JMP
110	000105	
111	103120	OAR BIC Initial Reg.
112	103221	OBR BIC Final Reg.
113	100020	Activate BIC
114	100537	Start Reader
115	005000	NOP
116	101020	Sen BIC Not Busy
117	000122	
120	001000	JMP
121	000115	,
122	100021	Initialize BIC
123	006010	LDAI
124	0×74 0 0	
125	006020	LDBI
126	0X <i>7</i> 777	
127	101537	Sen Buff Ready
130	000133	
131	001000	
132	000127	
133	103120	OAR BIC Initial Reg.
134	103221	OBR BIC Final Reg.
135	100020	Activate BIC
136	100537	Start Reader
137	005000	NOP
140	101020	Sen BIC Not Busy
141	0X6000	
142	001000	JMP
143	000137	

CODE					
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لم REV Place a test tape in the reader, then run the program starting at location 100. When it is complete, it will return to the Aid II program.

Verify that none of the protected locations of core get altered by using the search function of the Aid II program.

i.e. S 0,77,177777, N S X7400, X7777,177777, N

Any errors will be listed as in previous test. There should be no errors.

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DOCUMENTATION RECORD

CUSTOMER	VARIAN	GADS	JOB ORDER NO.	73284-24
MODEL NO.	620/L-100		SHIP DATE	-
SYS. SERIAL	NO. 81	·	CHECKED BY	

UNIT	DOCUMENTATION NO.	REV	ART REV	s/N	DESCRIPTION	INSP
·	01E1035	-	-	-	FRAME ASSY	
	01D1036	-	_	_	FRONT PANEL ASSY	
	93D0275	_	_	_	POWER SUPPLY INSTALLATION	
	3238441	-	-	_	CORE STACK	
DM288	44P0506	P		11047	SENSE INHIBIT	
DM288	44P0506	p		11050	SENSE INHIBIT	
DM288	44P0506	P		8987	SENSE INHIBIT	
DM288	44P0506	P		9018	SENSE INHIBIT	
DM288	44P0506				SENSE INHIBIT	
DM288	44P0506				SENSE INHIBIT	
DM295	44P0515				DISPLAY BOARD	
DM327	44P0578	G	<u> </u>	3075	DRIVE/SINK SW	
DM327	44P0578	B		3/42	DRIVE/SINK SW	
DM327	44P0578				DRIVE/SINK SW	
DM336	44P0592	D		3684	REGISTER CARD	
DM336	44P0592	ם		3688	REGISTER CARD	
DM336	44P0592	Ω		3675	REGISTER CARD	
DM336	44P0592				REGISTER CARD	
DM336	44P0592				REGISTER CARD	
DM336	44P0592				REGISTER CARD	
DM337	44P0593	N		1152	PROCESSOR CONT. #4	
DM337	44P0593				PROCESSOR CONT. #4	
DM338	44P0594	Ω		1435	HM/D & F.A.	
DM338	44P0594				HM/D & F.A.	
DM339	44P0595	В		1547	PROCESSOR CONT #1	
DM339	44P0595				PROCESSOR CONT #1	
DM340	44P0596	F		1314	PROCESSOR CONT. #2	
DM340	44P0596				PROCESSOR CONT. #2	
DM341	44P0597	E		1153	PROCESSOR CONT. #3	
DM341	44P0597				PROCESSOR CONT. #3	
DM342	44P0598	E		1380	DMA	
DM 3 43	44P0 67 1	F		092	MEMORY T AND CONT.	
DM343	44P0599				MEMORY T AND CONT.	



DOCUMENTATION RECORD

CUSTOMER VARIAN GADS	JOB ORDER NO. 73284-2
MODEL NO. 620/L - 100	SHIP DATE
SYS. SERIAL NO. 81	CHECKED BY

SYS. SER	rs. Serial no. <u>Bi</u>		CHECKED BY			
UNIT	DOCUMENTATION NO.	REV	ART REV	S/N	DESCRIPTION	INS
DM301	44P0521	F		1155	MEMORY BUFFER	
DM308	44P0530				TERM SHOE	
DM1 24-1	44P0172				PIM	
DM123-3	44P0185	U		2.347	PFR/ RTC	
	83P0035	Р		182	POWER SUPPLY	
	95W0908				WIRE LIST	·
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PREPARED BY Ma

DATE 5-30-74

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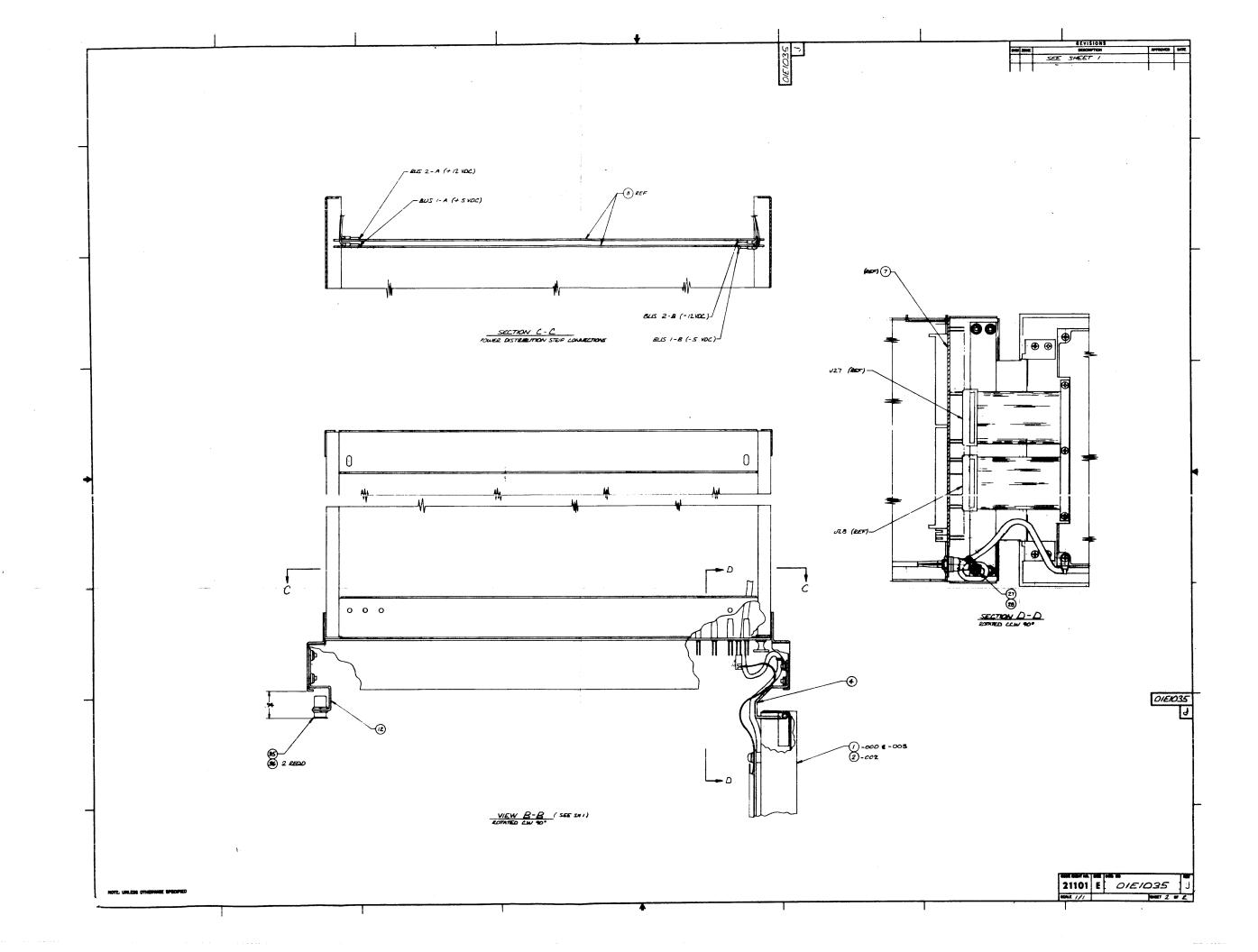
98A0746E Page 1 of 8

PARTS LIST FOR 620/L AND 620/L-100 CIRCUIT CARDS

The following is a composite parts list for the 620/L and 620/L-100. It is divided into three sections. Section 1 contains the standard circuit cards, section 2 the power supply, and section 3 the controller cards. The parts for each circuit card are listed in numerical order according to Varian part numbers. The reference designations in the parts list also appear on the assembly drawings and logic diagrams.

Card P/N and Name	Varian P/N	Manufacturer and P/N	Reference Designation
1. STANDARD L	OGIC CARDS		
44P0172 * Priority Interrupt Module	49A0002-000 49A0004-000 49A0007-000 49A0008-000 49A0010-000 49A0011-000 49A0012-000 49A0014-000 49A0016-000	Tex Inst SN7473N Tex Inst SN7440N Tex Inst SN7400N Tex Inst SN15846N Fairchild SL18162 Tex Inst SN15830N Tex Inst SN7474N Tex Inst SN15850N Tex Inst SN15833N	IC 16,33,39,44,49 IC 41 IC 23,24 IC 6,10,12,18,19,25,26, 30,32,38,43,45,46,48,50 IC 4,5,11,28,29,36 IC 1,7,13,17,20,21,27,35,51 IC 2,3,9,15,31,37,42,47 IC 22,34 IC 8,14,40
44P0185 Power Failure/ Restart and Real-Time Clock	49A0002-000 49A0004-000 49A0007-000 49A0008-000 49A0010-000 49A0011-000 49A0518-000 76A2369-000 76A3009-000 76A4034-000 76S1002-000 77N0753-000 77S1017-000	Tex Inst SN7473N Tex Inst SN7440N Tex Inst SN7440N Tex Inst SN15846N Fairchild SL18162 Tex Inst SN15830N Motorola MC851L 2N2369 2N3009 2N4034 Fairchild 2N4916 Motorola 2N3019 Fairchild 2N3646 IN753 Fairchild EDN400	IC 3,13,19,20,26,27,33 IC 22,23,32 IC 8,9,12,31 IC 1,2,4,5,6,11,21,24,25, 34,35,36,37,39,40,41 IC 14,15,16,17,18,28,30,42 IC 7,10 IC 29,38 Q 3,5,6,8,9,10,11,15,16,17,18 Q 12,19 Q 1,2,4,7,13,14 Q 1,2,4,7,13,14 Q 20 Q 12,19 CR 3,10 CR 1,2,4,5,6,7,9

^{*} See page 6 for another version of Priority Interrupt Module.



98A0746E Page 2 of 8

Card P/N		Manufacturer	Reference
and Name	Varian P/N	and P/N	Designation
est francisco de districtivo de partir en est prospetito de la planta de la proposición del la proposición del la proposición de la proposición de la proposición del la proposición de la proposición de la proposición de la proposición de la proposición del l			Designation
44P0506	48A0002-001	Varian	A 101,201,401,501,701,
Sense/Inhibit	10110001 001	V CL I ttil	
	48A0003-001	Varian	801,1001,1101
	49A0022-000		A 303,603,903,1203
	· · · · · · · · · · · · · · · · · · ·	Tex Inst SN74H11N	IC 4,5,7,9,10,12
	49A0032-000	Tex Inst SN7402N	IC 2
	49A0042-000	Tex Enst SN74H01N	IC 1,3,6,8,11
	49A0080-000	Tex Inst SN7524N	IC 101,201,401,501,701,
			801,1001,1101
	49A0119-000	Motorola MHQ5859	A 302,602,902,1202
	76A2369-000	2N2369	O 301 through 304, 601
			through 604, 901 through
			904, 1201 through 1204
	77S1017-000	Fairchild EDN400	CR 101,102,103,104 through
			904,1201,1202,1203,1204,
			305,605,905,1205
			303,603,903,1203
44P0515	49A0004-000	Tex Inst SN7440N	TO 15
Display Board	49A0040-000		IC 15
supray board	49A0110-000	Tex Inst SN7404N	IC 3,7,11,13
	49A0110-000	Tex Inst SN75451BP	IC 1,2,4,5,6,8,9,10,12,14
44P0521	4030000		
Memory Buffer	49A0023-000	Tex Inst SN74H04N	IC 2,4,7
Memory Burrer	49A0025-000	Varian	A 1,2
	49A0042-000	Tex Inst SN74H01N	IC 1,3,5,6,8
	49A0124-000	Tex Inst SN7407N	IC 13,14,15
	49A0125-000	Tex Inst SN7408N	IC 9,10,11,12
44P0578	49A0032-000	Tex Inst SN7402N	IC 1,3
Driver/Sink	49A0041-000	Tex Inst SN74H5lN	IC 4,7,8
Switch	49A0044-000	Tex Inst SN7442N	IC 2,5,9,11
	49A0118-000	Tex Inst SN7427N	IC 6,10
	49A0119-000	Motorola MHO5859	A 102,104,202,204,302,304,402
		110001011111111111111111111111111111111	404,502,504,602,604,702,704
		V.	
	76A0002-000	2N3725A	802,804 Q 2 5
	76A2369-000	2N2369	
	76A2904-000		0 1,2,5,9,12,13,14,17,18
		2N2904	0 23
	76A2907-000	Motorola 2N2907	0 3,4,6,7,8,10,11,15,16,19,20
	76N3640-000	2N3640	0 21,24
	76S1046-000	Fairchild 2N3646	0 22,26
	77N0751-000	Tex Inst IN751A	CR 7,10,11,12,13,14
	77S1017-000	Fairchild EDN400	CR 1 through 6,8,9,15, 101
			through 116, 201 through
	· (216, 301 through 316, 401
			through 416, 501 through
			524, 601 through 624, 701
			through 724, 801 through
			824

98A0746E Page 3 of 8

Card P/N		Manufacturer	Reference
and Name	Varian P/N	and P/N	Designation
44P0592	49A0000-000	Tex Inst SN7475N	IC 9,21,33
Register Card	49A0007-000	Tex Inst SN7400N	IC 13,24
	49A0010-000	Fairchild SL18162	IC 2,6,7
	49A0012-000	Tex Inst SN7474N	IC 4,8,14
	49A0023-000	Tex Inst SN74H04N	IC 12,18,41
•	49A0040-000	Tex Inst SN7404N	IC 1
	49A0095-000	Tex Inst SN74H52N	IC 15
	49A0096-000	Tex Inst SN74181N	IC 19,25
	49A0102-000	Tex Inst SN74182N	IC 3
	49A0104-000	Motorola MC3001P	IC 26
-	49A0106-000	Tex Inst SN74H53N	IC 5,10,11,16,17,22,23,27,
			28,29,30,31,32,34,35,40,
			42,43,44
	49A0141-000	Tex Inst SN74174N	IC 36,37,38,39
	49A0554-001	Tex Inst SN74H10N	IC 20
	77S1011-000	Varian	CR 1 through 6
44P0593	49A0000-000	Tex Inst SN7475N	IC 40
Processor	49A0002-000	Tex Inst SN7473N	IC 4,18,19,43
Control	49A0004-000	Tex Inst SN7440N	IC 2
Number 4	49A0005-000	Tex Inst SN7410N	IC 10,13,44
	49A0006-000	Tex Inst SN7420N	IC 21
	49A0007-000	Tex Inst SN7400N	IC 5,12,42
	49A0010-000	Fairchild SL18162	IC 1,29
	49A0019-000	Tex Inst SN74H40N	IC 6,7,32
	49A0020-000	Tex Inst SN74H72N	IC 8
	49A0023-000	Tex Inst SN74H04N	IC 14,17,22
	49A0025-000	Varian	A 1,2
	49A0036-000	Tex Inst SN74H73N	IC 28
	49A0038-000	Tex Inst SN74H22N	IC 15
	49A0039-000	Tex Inst SN74H00N	IC 9,39,41,45
	49A0042-000	Tex Inst SN74H01N	IC 3,27
	49A0056-000	Tex Inst SN74H20N	IC 31,33,38
	49A0077-000	Tex Inst SN74H60N	IC 24
	49A0104-000	Motorola MC3001P	IC 16,25
	49A0106-000	Tex Inst SN74H53N	IC 26
	49A0127-000	Tex Inst SN74161N	IC 23
	49A0138-000	Tex Inst SN7437N	IC 11,30,37
	49A0146-000	Tex Inst SN74122N	IC 46
	49A0554-001	Tex Inst SN74H10N	IC 20,34,35,36
	-7114744 007	a was made but a made	

98A0746E Page 4 of 8

Card P/N		Manufacturer	Reference
and Name	Varian P/N	and P/N	Designation
- And the state of the section of th	4 14 7 - 44 7 1 - 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 	Control of the Contro	
44P0594	49A0000-000	Tex Inst SN7475N	IC 16
Multiply/	49A0002-000	Tex Inst SN7473N	IC 2,29
Divide,	49A0006-000	Tex Inst SN7420N	IC 27
Extended	4 9A000 7- 000	Tex Inst SN7400N	IC 21,22
Address	49A0008-000	Tex Inst SN15846N	IC 6,8,9,24,25
	49A0009-000	Tex Inst SN15862N	IC 19
	49A0010-000	Fairchild SL18162	IC 7
	49A0011-000	Tex Inst SN15830N	IC 10,14,28
	49A0036-000	Tex Inst SN74H73N	IC 15
	49A0038-000	Tex Inst SN74H22N	IC 1,4,5,13,18
	49A0039-000	Tex Inst SN74H00N	IC 17,32
	49A0042-000	Tex Inst SN74H01N	IC 3,20
	49A0128-001	Tex Inst SN7438N	IC 11,12,26,30,31
	49A0142-000	Tex Inst SN7412N	IC 23
44P0595	4030000 000	Mass Tamb 0374753	TO 10 10 26 27
	49A0000-000	Tex Inst SN7475N	IC 18,19,26,27
Processor	49A0002-000	Tex Inst SN7473N	IC 1,4,8,34
Control	49A0004-000	Tex Inst SN7440N	IC 37
Number 1	49A0005-000	Tex Inst SN7410N	IC 36
	49A0007-000	Tex Inst SN7400N	IC 7,10
	49A0008-000	Tex Inst SN15846N	IC 2,5,12,13,15,16,20,24, 25,28,29,30,31,33
	49A0009-000	Tex Inst SN15862N	IC 11
	49A0011-000	Tex Inst SN15830N	IC 3,6
	49A0019-000	Tex Inst SN74H40N	IC 32
	49A0021-000	Tex Inst SN7401N	IC 14,21,22,23
	49A0039-000	Tex Inst SN74H00N	IC 9
	49A0042-000	Tex Inst SN74H01N	IC 17
	76N3055-000	2N3055	Q 1
	77N4730-000	IN4730A	CR 1
	77S1011-000	Varian:	CR 2
44P0596	49A0000-000	Tex Inst SN7475N	IC 41
Processor	49A0002-000	Tex Inst SN7473N	IC 9,20,27
Control	49A0004-000	Tex Inst SN7440N	IC 18,40,43
Number 2	49A0005-000	Tex Inst SN7410N	IC 10,11,30,48
	49A0006-000	Tex Inst SN7420N	IC 22,23,26,28,34
	49A0007-000	Tex Inst SN7400N	IC 4,5,7,12,19,37
	49A0008-000	Tex Inst SN15846N	IC 15,17,31,42
	49A0009-000	Tex Inst SN15862N	IC 1,6,29
	49A0010-000	Fairchild SL18162	IC 13,24,47
	49A0011-000	Tex Inst SN15830N	IC 3,21,25
	49A0019-000	Tex Inst SN74H40N	IC 32
	49A0038-000	Tex Inst SN74H22N	IC 8,14,38
	49A0039-000	Tex Inst SN74H00N	IC 36
	49A0042-000	Tex Inst SN74H01N	IC 2,16,35,39,45
	49A0056-000	Tex Inst SN74H20N	IC 33
	7751011-000	Varian	CR 1

98A0746E Page 5 of 8

1			-
eard P/N		Manufacturer	Reference
and Name	Varian P/N	and P/N	Designation
440000			
44P0597	49A0002-000	Tex Inst SN7473N	IC 2,12
Processor	49A0004-000	Tex Inst SN7440N	IC 1,5,9,15,18,20,24,29
Control	49A0005-000	Tex Inst SN7410N	IC 4
Number 3	49A0006-000	Tex Inst SN7420N	IC 10,14,43
	49A0007-000	Tex Inst SN7400N	IC 13,42
	49A0008-000	Tex Inst SN15846N	IC 11,23,27,28,32,33
	49A0009-000	Tex Inst SN15862N	IC 6,31
	49A0019-000	Tex Inst SN74H40N	IC 26,34,41
	49A0038-000	Tex Inst SN74H22N	IC 37
	49A0039-000	Tex Inst SN74H00N	IC 19,38
	49A0042-000	Tex Inst SN74H01N	IC 7,16,21,22,30,36,39
	49A0128-001	Tex Inst SN7438N	IC 3,8
	49A0142-000	Tex Inst SN7430N	IC 25,35,40
	49A0554-000	Tex Inst SN7412N	IC 23,35,40 IC 17,44
	77S1011-000	Varian	
	,,01011	Vallan	CR 1,2
44P0598	49A0002-000	Tex Inst SN7473N	IC 1,9
Interrupt	49A0004-000	Tex Inst SN7440N	IC 24,28,32
Trap	49A0005-000	Tex Inst SN7410N	IC 40
	49A0007-000	Tex Inst SN7400N	IC 10,15
	49A0008-000	Tex Inst SN15846N	IC 3,6,12,14,16,20,23,27,
		1011 11100 0111100 4011	35,37,38
	49A0010-000	Fairchild SL18162	IC 2,8
	49A0011-000	Tex Inst SN15830N	IC 36
	49A0021-000	Tex Inst SN7401N	IC 39
	49A0036-000	Tex Inst SN74H73N	IC 19
	49A0038-000	Tex Inst SN74H22N	IC 7
	49A0039-000	Tex Inst SN74H00N	
	49A0042-000	Tex Inst SN74HOON	IC 18,22,26,30,31,34
	49A0056-000	Tex Inst SN74H0IN	IC 13,17,21,25,29,33
	49A0142-000	Tex Inst SN7412N	IC 4,11
	77S1011-000		IC 5
	1127077-000	Varian	CR 1,2
44P0599	49A0003-000	Tex Inst SN7472N	IC 9
Memory Timing	49A0019-000	Tex Inst SN74H40N	IC 17
and Control	49A0023-000	Tex Inst SN74H04N	IC 7,13
	49A0039-000	Tex Inst SN74H00N	IC 6,11
	49A0041-000	Tex Inst SN74H51N	IC 16
	49A0056-000	Tex Inst SN74H3IN	IC 10
	49A0079-000	Tex Inst SN74H20N	IC 8,15
	49A0146-000	Tex Inst SN74134N	IC 8,15 IC 14
	49A0554-001	Tex Inst SN74122N	IC 14 IC 10
•	77S1017-000	Fairchild EDN400	
		EGITTU EDN400	CR 1

98A0746E Page 6 of 8

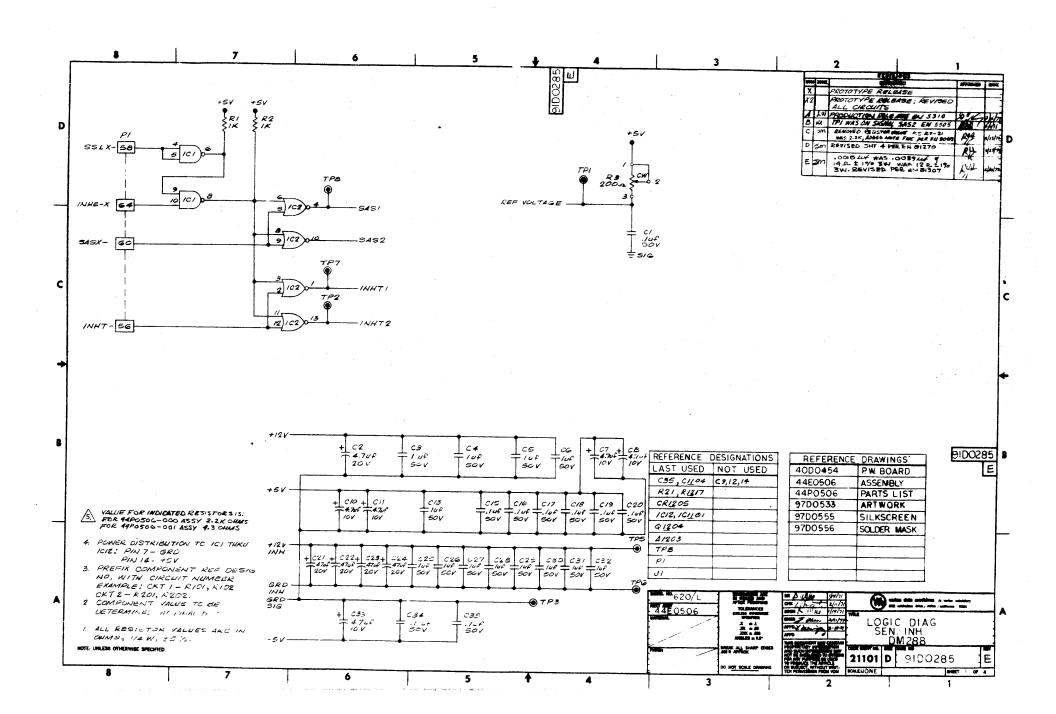
Card P/N and Name	Varian P/N	Manufacturer and P/N	Reference Designation
44P0640 Memory Timing and Control	49A0003-000 49A0019-000 49A0023-000 49A0039-000 49A0041-000 49A0056-000 49A0079-000 49A0146-000 49A0554-001 77S1017-000	Tex Irst SN7472N Tex Irst SN74H40N Tex Irst SN74H04N Tex Irst SN74H00N Tex Irst SN74H51N Tex Irst SN74H20N Tex Irst SN74H54N Tex Irst SN74H54N Tex Irst SN74H22N Tex Irst SN74H10N Fairchild EDN400	IC 9 IC 17 IC 7,13 IC 6,11 IC 16 IC 12 IC 8,15 IC 14 IC 10 CR 1
44P0683 Priority Interrupt Module	49A0002-000 49A0012-000 49A0022-000 49A0023-000 49A0036-000 49A0039-000 49A0040-000 49A0082-001 49A0093-001 49A0094-001 49A0104-000 49A0128-001 49A0138-000 49A0554-001	Tex Inst SN7473N Tex Inst SN7474N Tex Inst SN74H11N Tex Inst SN74H04N Tex Inst SN74H04N Tex Inst SN74H00N Tex Inst SN74H00N Tex Inst SN74H20N Tex Inst SN74H20N Tex Inst SN74H74N Tex Inst SN74H50N Tex Inst SN74H21N Motorcla MC3001P Tex Inst SN7437N Tex Inst SN7437N Tex Inst SN74H10N	C 6,7; D 6,7 B 3; C 2,3,4 D 4 C 1; E 3 F 2 E 1,6,7; F 3 A 1; B 1,2,3; E 5 A 4,5; C 5; D 1,5 A 6,7; B 6,7; F 1 D 2 E 4 D 3; F 6,7 A 2,3 E 2 B 4

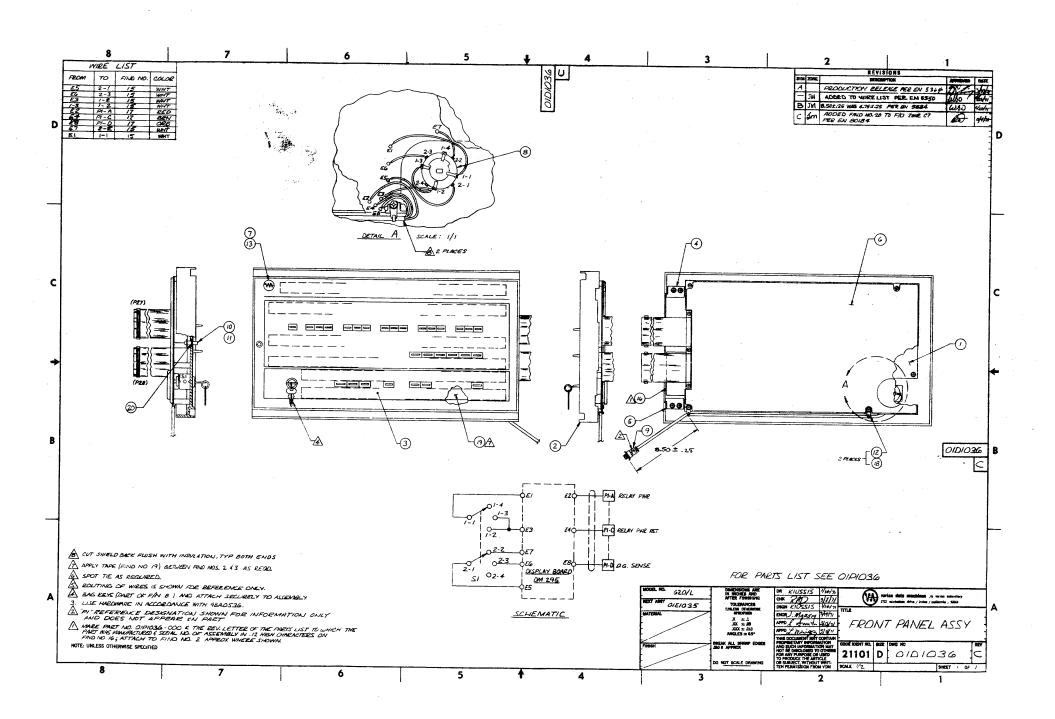
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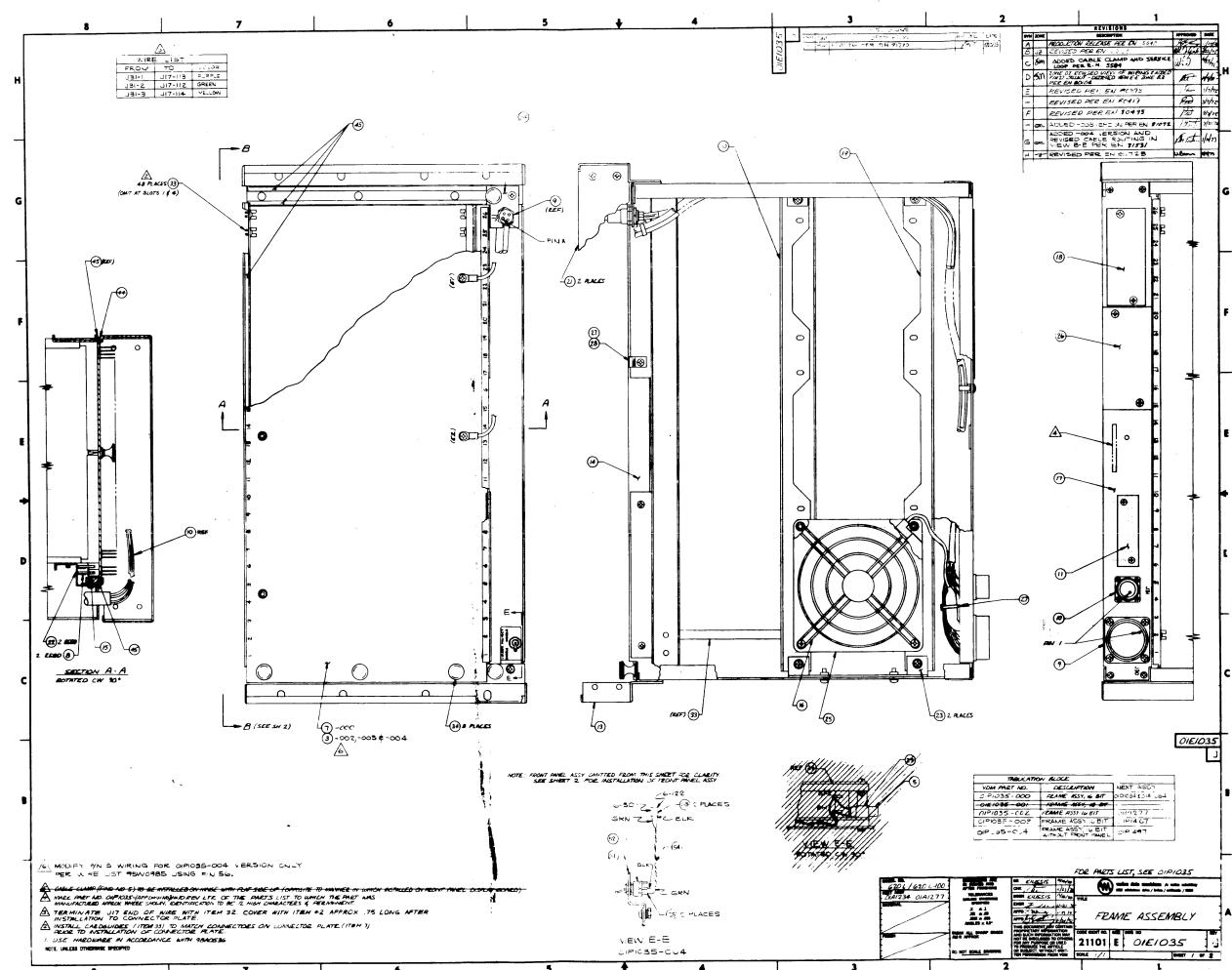
ard P/N	Varian P/N	Manufacturer and P/N	Reference Designation				
2. POWER SUPPLY							
44P0518 Heat Sink Board	76N3055-000	2N3005	Q 1,2				
44P0526 Power Supply Board	76A0009-002 77N4001-004 77N4003-000 82A0030-001	Motorola MR751 IN4005 IN4003 Potter Brumfield KUP14AE6-115 VAC	CR 5,6,7,8,9,10,11,13 CR 15,16 CR 12,14 K 1				
44P0528 Regulator Board	49A0103-001 76A0007-000 76A2904-000 77A0004-000 77N0751-000 77N4003-000	Fairchild U5R7723393 2N3054 2N2904 IN746A Tex Inst IN751A IN4003	IC 1,2,3,4 O 1,2,3,5 O 4 CR 6 CR 3 CR 4,5				
83P0035 ower Supply	76A0008-000 77A0005-000	Motorola MR1121 Motorola MCR3935-2	CR 1,2,3,4 Q 1				
3. CONTROLLER CARDS							
44P0013 Teletype Controller	49A0002-000 49A0004-000 49A0007-000 49A0008-000 49A0009-000 49A0010-000 49A0012-000 76A2369-000 76S1072-000 77S1017-000 82A0006-000 82A0006-003	Tex Inst SN7473N Tex Inst SN7440N Tex Inst SN7400N Tex Inst SN15846N Tex Inst SN15862N Fairchild SL18162 Tex Inst SN7474N 2N2369 Varian Fairchild EDN400 Aztec 20229 Aztec 20213	IC 6,10,11,22,23,27,28, 30,31,36,41 IC 25,40 IC 2,3,42 IC 1,4,13,14,15,17,19,20, 24,29,34,35,37,43 IC 5,38 IC 7,8,9,12,21,39,44 IC 16,18,26,32,33 O 1 through 4 O 1 through 4 CR 1 through 10 K 2 K 1				

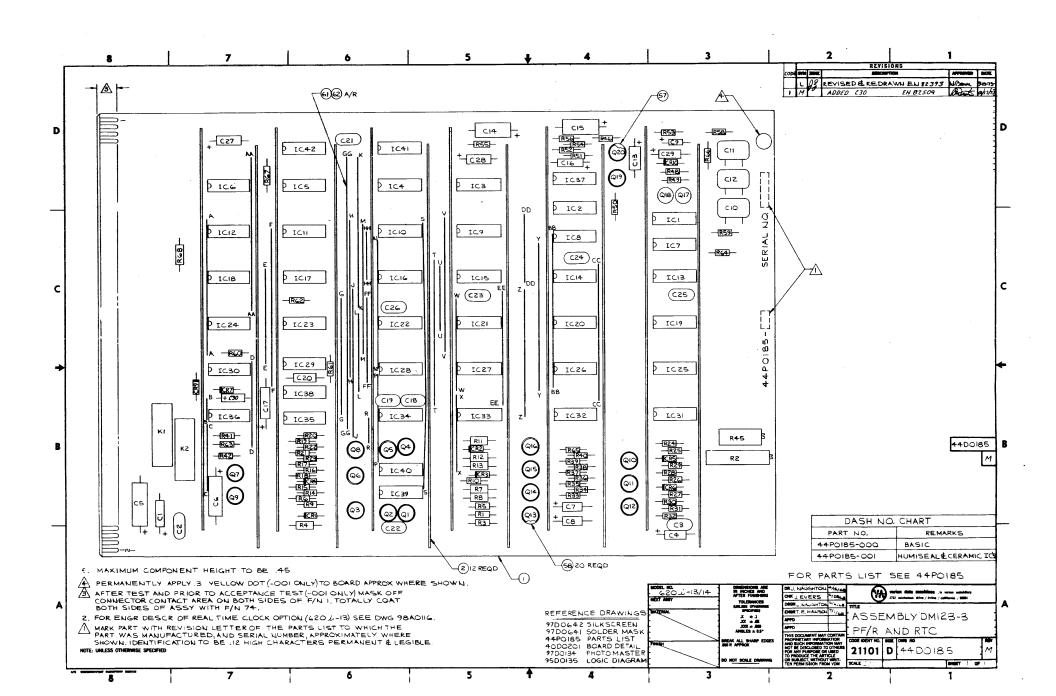
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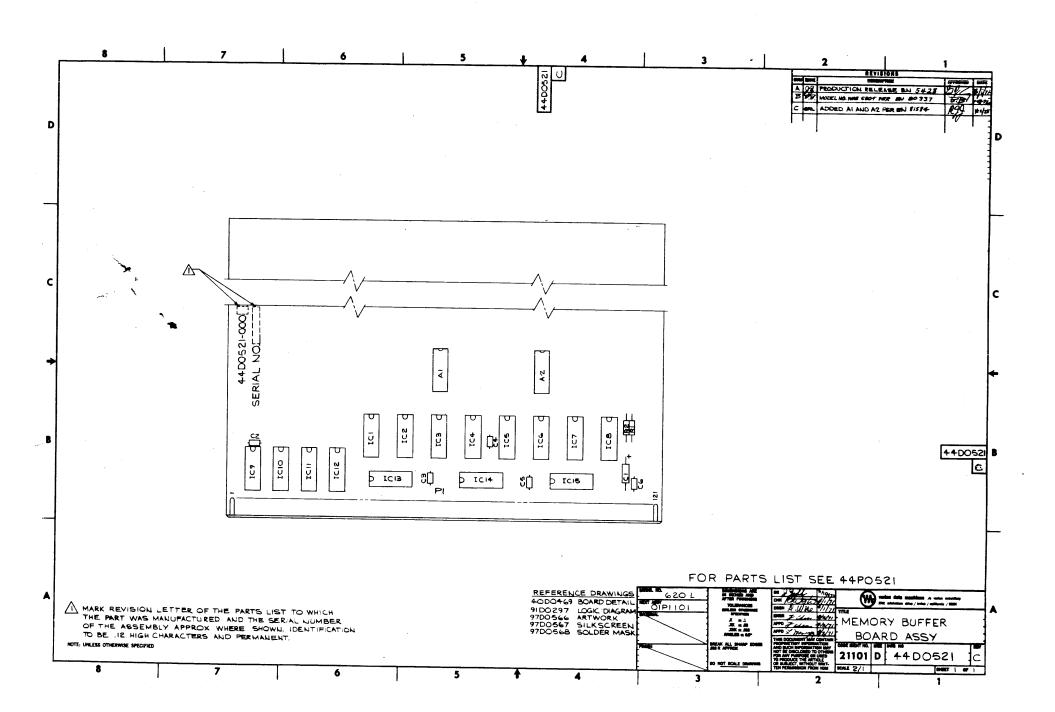
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Card P/N		Manufacturer	Reference
and Name	Varian P/N	and P/N	Designation
The second secon			Designation
44P0026	49A0000-000	Man Took CN7475N	TO 14 00 40 TO
Buffer		Tex Inst SN7475N	IC 14,28,42,56
	49A0002-000	Tex Inst SN7473N	IC 57
Interlace	49A0004-000	Tex Inst SN7440N	IC 15,17,37
Controller	49A0005-000	Tex Inst SN7410N	IC 31
	49A0007-000	Tex Inst SN7400N	IC 4,5,16,38
	49A0008-000	Tex Inst SN15846N	IC 2,6,7,13,20,21,23,27,34,
		101 1/15C DN 15040N	
•	49A0010-000	Fairchild SL18162	35,41,43,48,49,55,62,63
	49A0010-000	FalkChild SL18102	IC 1,18,19,29,32,33,46,47,
	4020077		50,51,58,60,61
	49A0011-000	Tex Inst SN15830N	IC 3
	49A0012-000	Tex Inst SN7474N	IC 11,12,25,26,39,40,53,54
	49A0014-000	Tex Inst SN15850N	IC 8,9,10,22,24,30,36,44,
			45,52,59
		the state of the s	15 (32 (5)
44P0689	4030000 000		
	49A0000-000	Tex Inst SN7475N	A 7; B 7; C 7; D 7
Buffer	49A0002-000	Tex Inst SN7473N	E 6; F 2; K 4
Interlace	49A0012-000	Tex Inst SN7474N	F 6; H 7; K 3
Controller	49A0022-000	Tex Inst SN74H11N	E 4; H 2
	49A0023-000	Tex Inst SN74H04N	
	49A0039-000		A 4; C 4; D 5; E 5; K 5
		Tex Inst SN74H00N	K 5
	49A0040-000	Tex Inst SN7404N	A 1; B 1; C 1; D 3
	49A0042-000	Tex Inst SN74H01N	A 6; B 6; C 6; D 6
	49A0082-001	Tex Inst SN74H74N	E 2
	49A0093-001	Tex Inst SN74H50N	E 3; F 5,7
	49A0094-001	Tex Inst SN74H21N	н 3
	49A0104-000	Motorola MC3001P	F 1,4; H 6; K 6
	49A0127-000	Tex Inst SN74161N	A 3; B 3; D 4
	49A0128-001		
		Tex Inst SN7438N	A 2; B 2; C 2; D 1,2; E 1; H
	49A0178-000	Tex Inst SN74175N	н 1
	49A0554-001	Tex Inst SN74H10N	F 3
			·
44P0176	49A0000-000	Tex Inst SN7475N	IC 8,14
Paper Tape	49A0002-000	Tex Inst SN7473N	IC 52
Controller	49A0004-000	Tex Inst SN7440N	IC 16,25,31,37,40,42,
	!		45,48,51,55
	49A0008-000	Tex Inst SN15846N	IC 1,6,7,10,12,13,15,
	13110000 00	ICH THE DITEOUR	18,19,24,27,29,30,
	10		34,36,38,47,49,50,57
	49A0009-000	Tex Inst SN15862N	IC 21,41,53
	49A0010-000	Fairchild SL18162	IC 5,11,17,23,26,32,43
	49A0011-000	Tex Inst SN15830N	IC 35
	49A0014-000	Tex Inst SN15850N	IC 4,28,33,39,44
	49A0018-000	Tex Inst SN15851N	IC 22
	49A0042-000	Tex Inst SN74H01N	IC 2,3,9,20
•	49A0146-000		IC 46,56
	43W0T40_000	Tex Inst SN74122N	TC 40 100
4400003	40-06-5		
44P0601	49A0007-000	Tex Inst SN7400N	IC 2
Bootstrap	49A0039-000	Tex Inst SN74H00N	IC 18
Loader	49A0508-000	Tex Inst SN15846J	IC 4
	49A0510-000	Fairchild SL13016	IC 1,5
	49A0516-000	Motorola MC833L	IC 3
	-5110520 000	11000001	

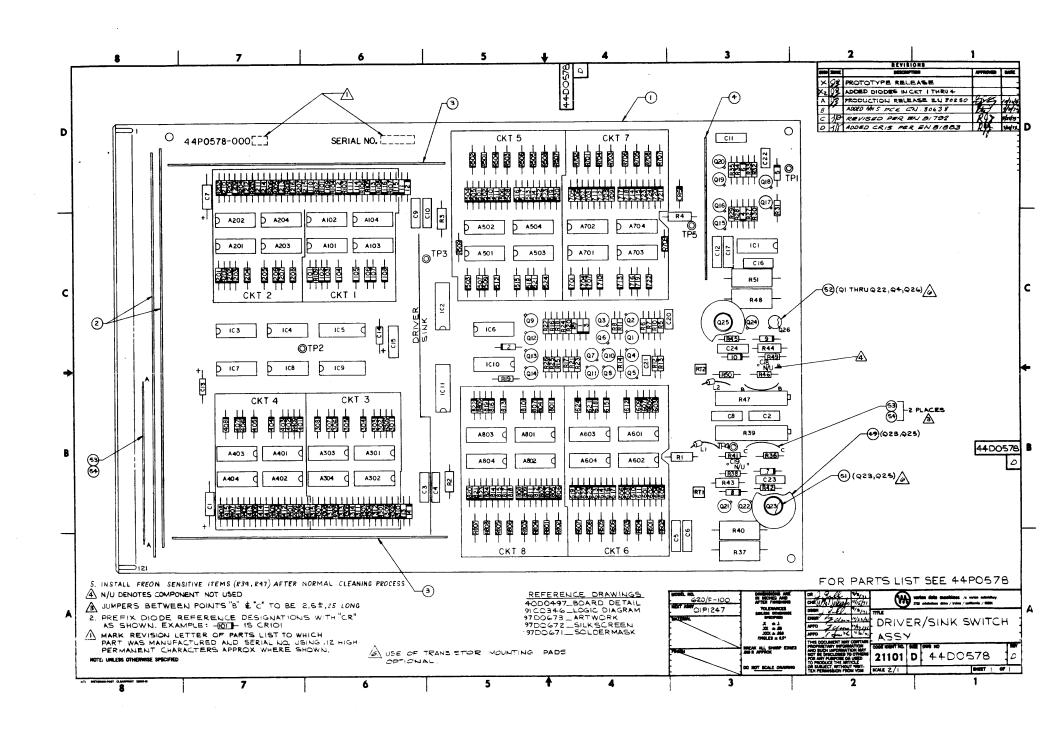


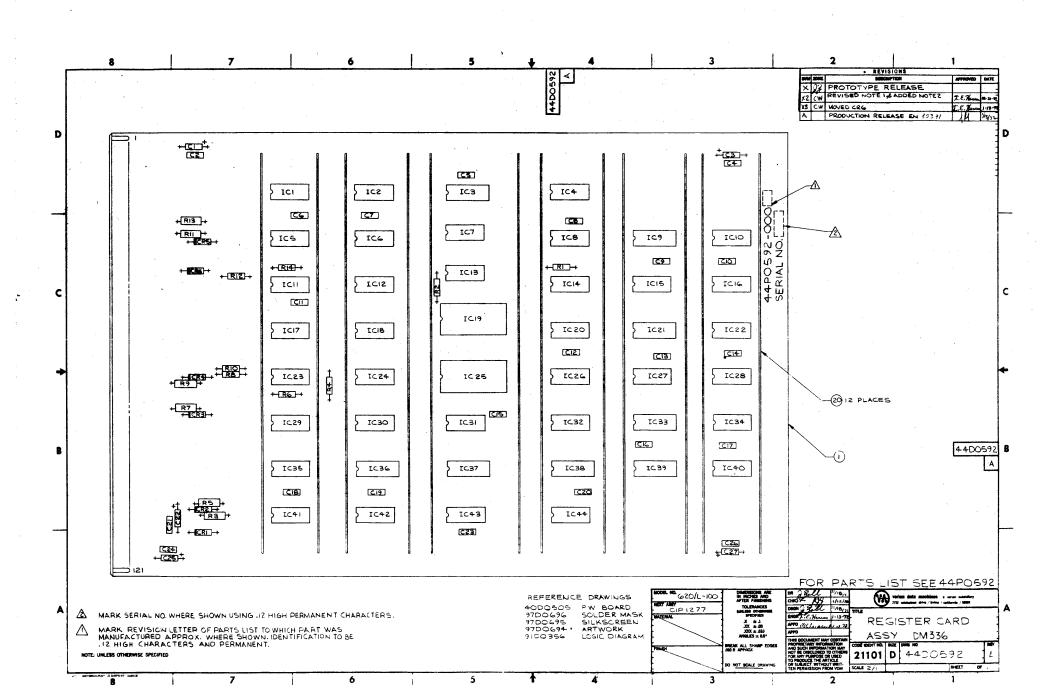




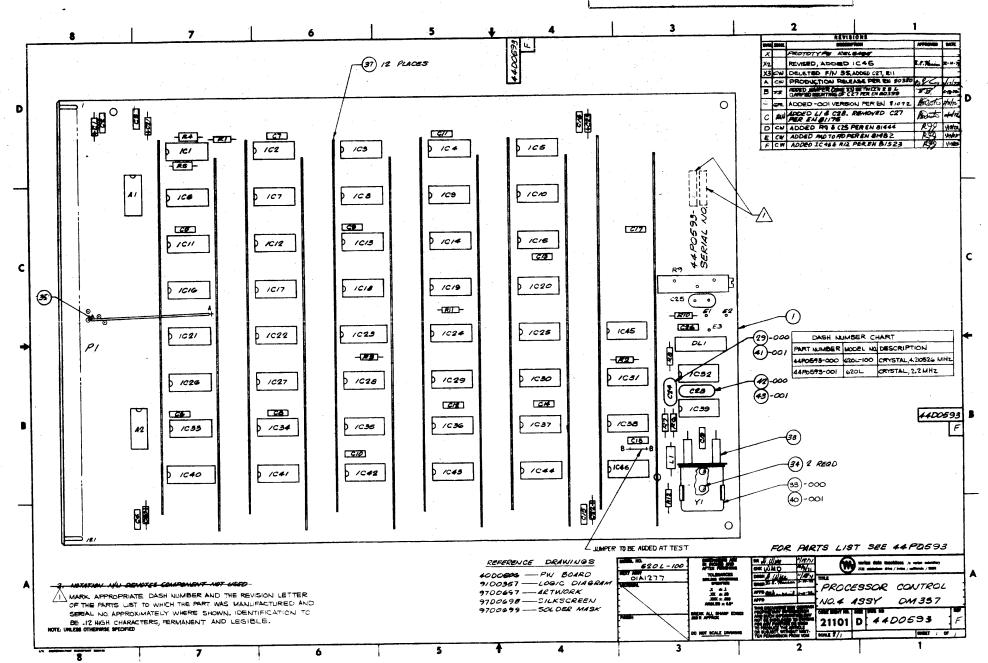


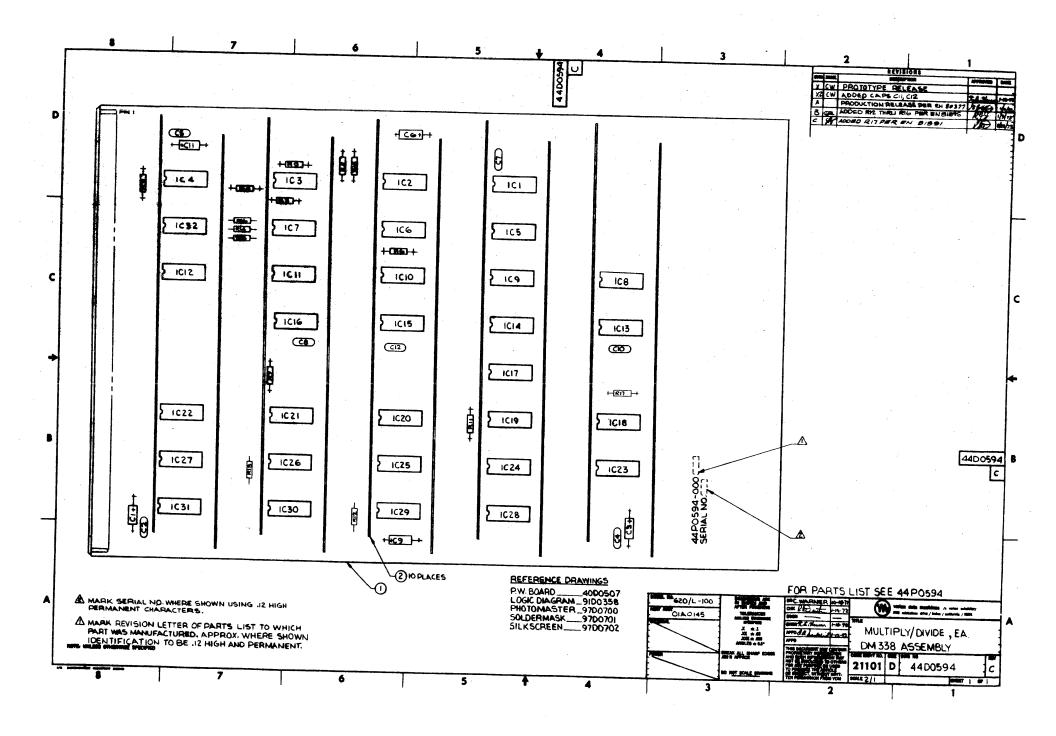


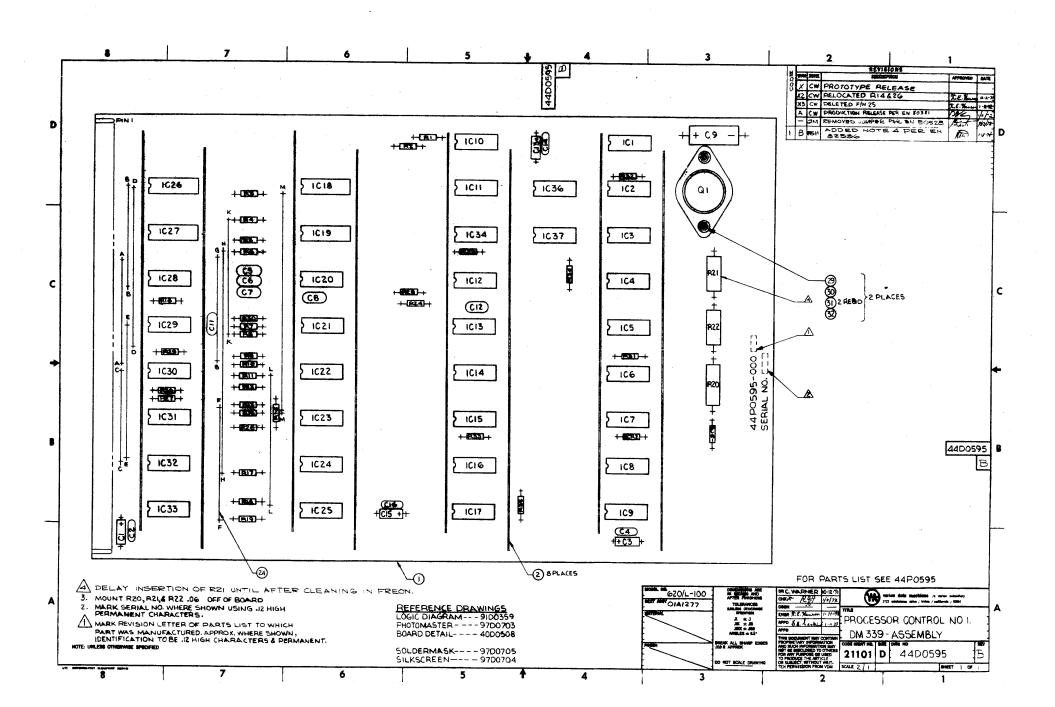


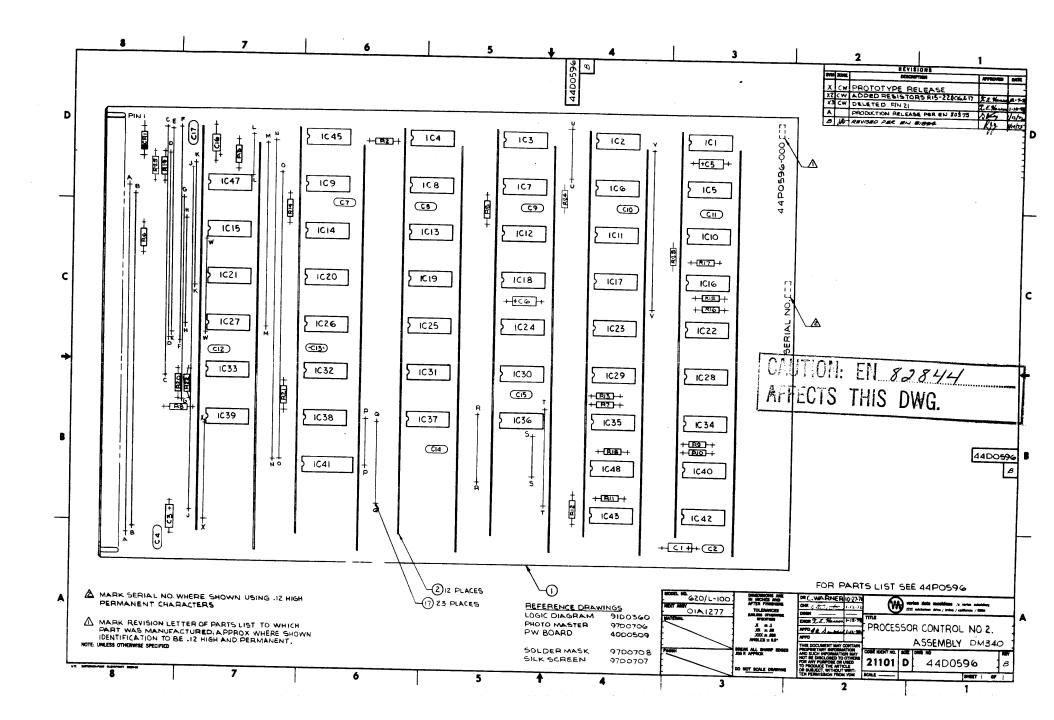


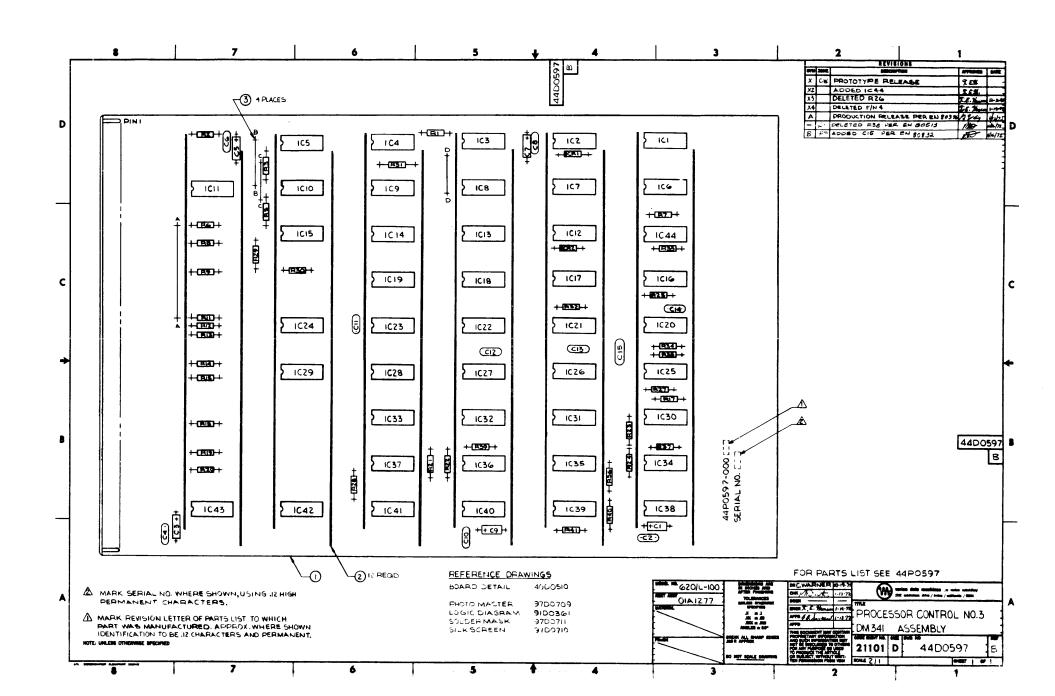
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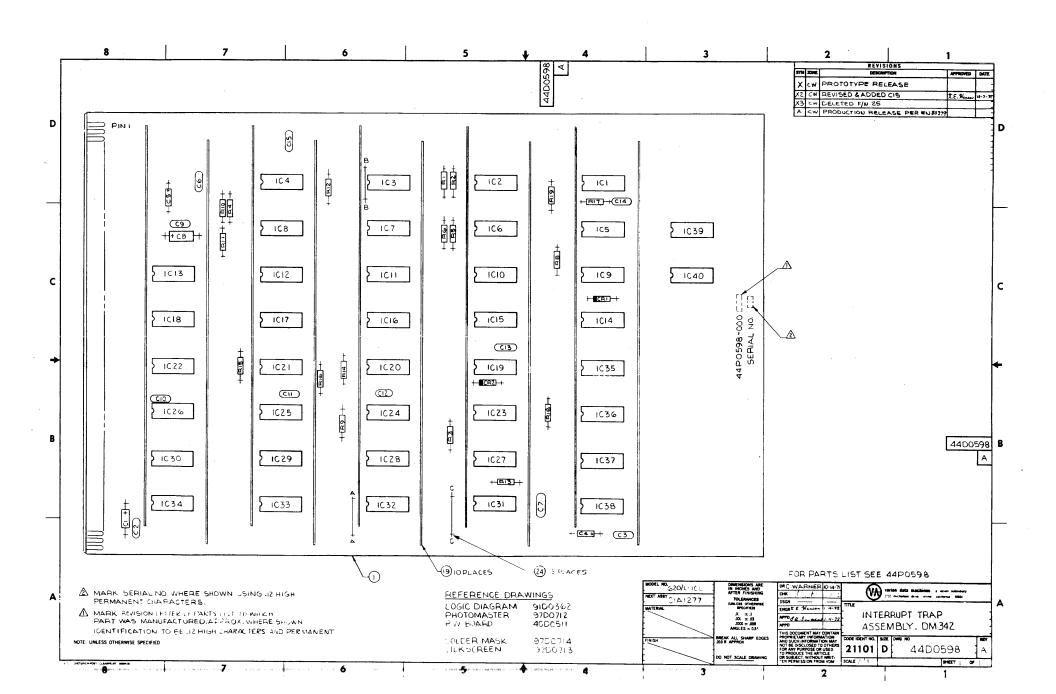


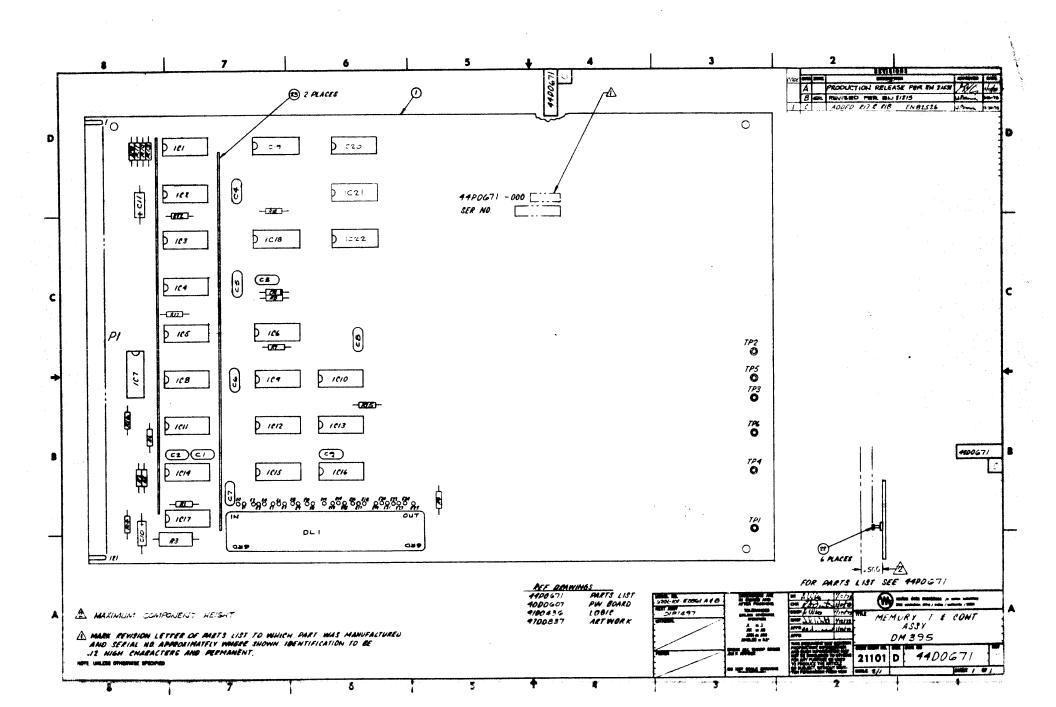


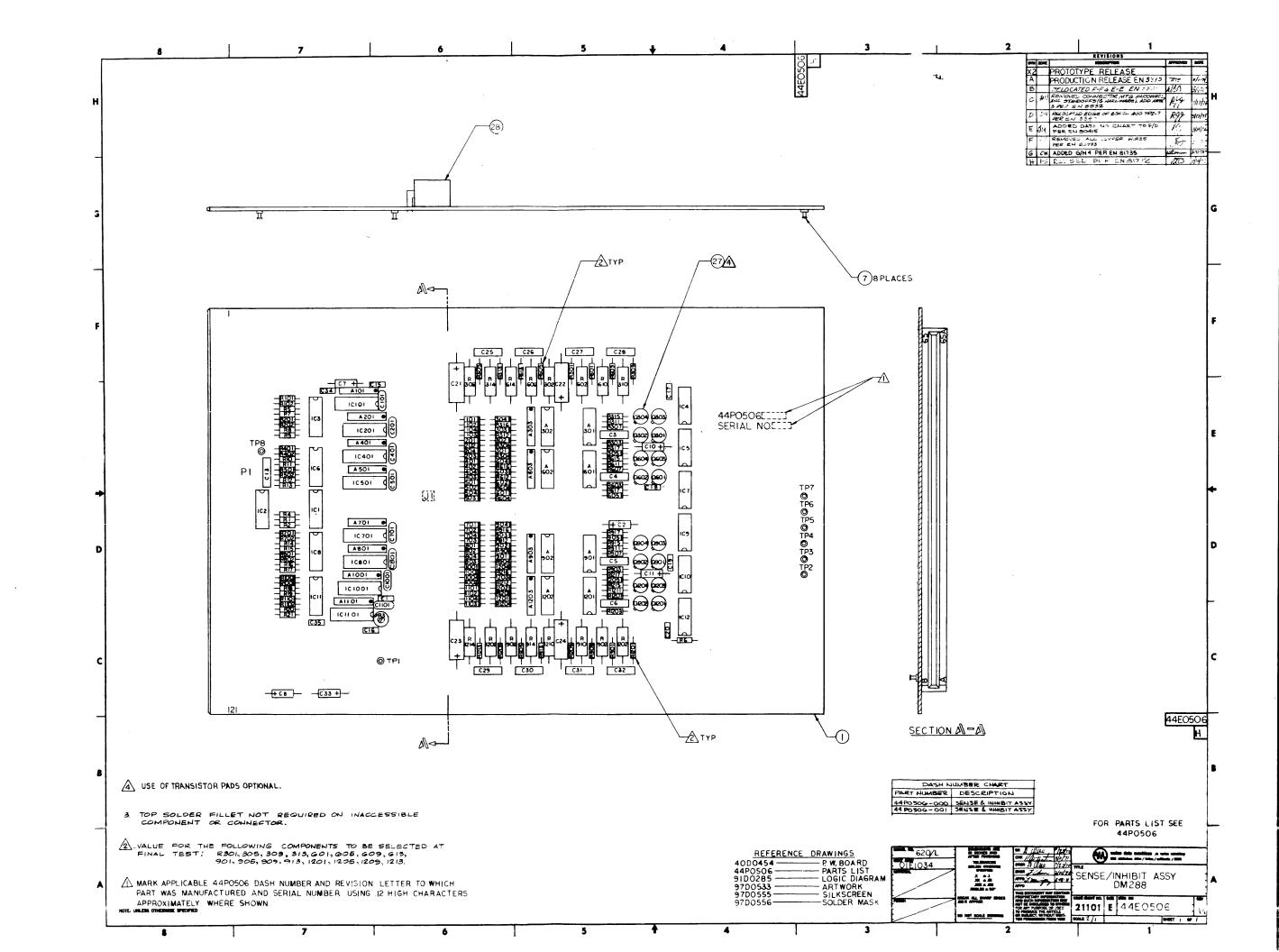












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BEXT ASSEMBLY SY47497	MODEL NO. .620/L-101-E286/ .AEB	varian data machines /a varian subsidiary 2722 michelson drive / itvine / california / 9266			
D.WISE / help	CODE 21101	TITLE PARTS LIST - MEMORY			
	THIS DOCUMENT MAY CONTAIN. PROPRIETARY INFORMATION AND	TÉCONT ASSY, DM 395			
	SUCH INFORMATION MAY NOT BE OBSCIONED TO OTHERS FOR AMY PURPOSE OR USED TO PRODUCE THE ABTICLE OR SUBJECT, WITH	SIZE DWG NO. REV			
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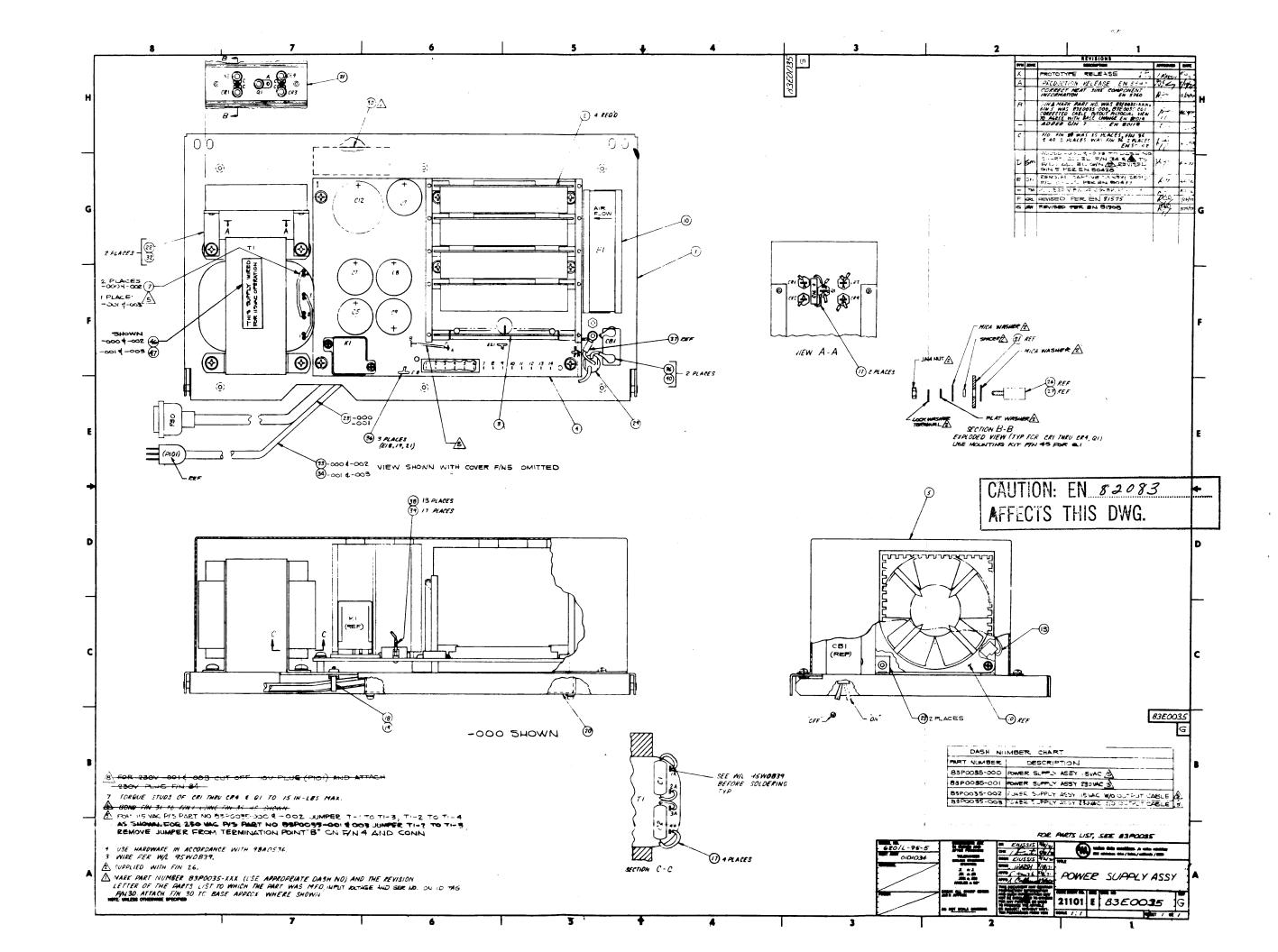
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2 2 49A0059-000 4 47A0023-000 4 47A0041-000 2 5 49A0654-001 7 49A0057-000 1 7 49A0079-000 2 11 69NISOO-101 2 11 69NISOO-101 2 11 69NISOO-101 2 11 69NISOO-475 1 14 77SIOI7-000 1 15 80A00399-001 5 80A00399-001	CONCER EULES DESCRIPTION
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6 47A0003-000 7 49A0056-000 10 49A0019-000 INTESENT 10 49A0019-000 INTESENT 2 71A0004-100 CAP, 100 13 71NG100-475 CAP, 1-1 14 77S1017-000 DIODE 15 80A0039-001 DELAY 15 80A0039-001 DELAY	100,22
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NOTES: (UNLESS OTHERWISE SPECIFIED)

- 1. ALL RESISTORS ARE 1/4W, ±5%
- 2. THIS DRAWING CONSISTS OF SHEETS 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0
- 3. ON IC'S 1,3,4,6,7,8 & 10 PIN 14 IS CONNECTED TO +5 AND PIN 7 IS CONNECTED TO GRD.
- 4. PREFIX COMPONENT REFERENCE DESIGNATION NO. WITH CIRCUIT NO. EXAMPLE: CKT 1, R101; CKT 2, R202

REFERENCE DESIGNATIONS						
LAST USED NOT USED						
C24	C18,19					
CR15,CR_24						
LZ						
Q26						
R 51, R_09						
RT 2						
IC 11						
A_04						

REFERENCE DRAWINGS				
44D0578	ASSEMBLY			
44P 0578	PARTS LIST			
40D0497	BOARD DETAIL			
9700673	ARTWORK			
9700672	SILKSCREEN			
9700671	SOLDERMASK			

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BOOR of Cham Made	LOGIC DIAGRAM	
THE DECIMAL AND REPORT	DR/SK SW	
	21101 C 91C0346	C
Ten Permission Phila Von	SOLE 6205-100 SHEET 1.	0

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A CT PRODUCTION RELEASED BY COST 1960 BY CT 3 6 24 WAS .33 UF SOVD EN 80374 (160)

ADDED CRIS PER EN SISOS

TABLE OF CONTENTS

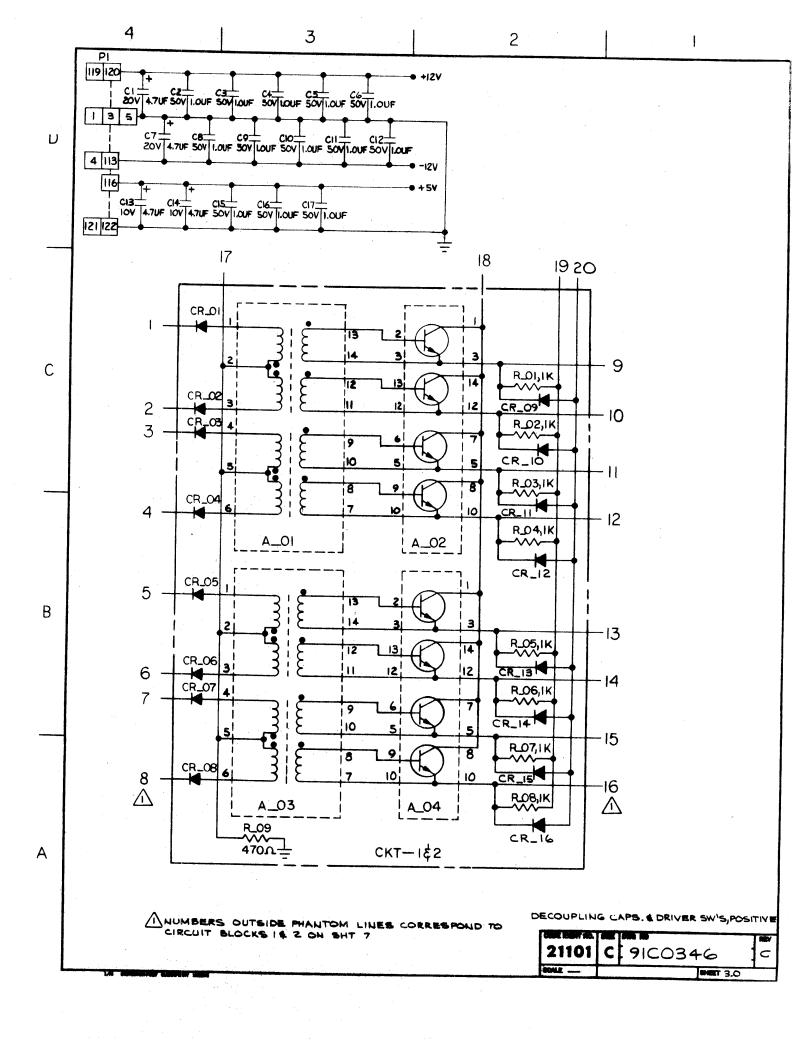
DESCRIPTION	SHEET	NO.
COVER	1.0	
REVISION, TABLE OF CONTENTS &	2.0	
CONNECTOR PIN ASSIGNMENTS		
DECOUPLING CAPS, & DRIVER SWIS, POSITIVE	3.0	
DRIVER SWITCHES, NEGATIVE	4.0	
SINK SWITCHES, NEGATIVE	5.0	
SINK SWITCHES, POSITIVE	(0	
DRIVER LOGIC	7.0	
SINK LOGIC	8.0	
PRE DRIVER	9.0	
CURRENT SOURCES	10,0	

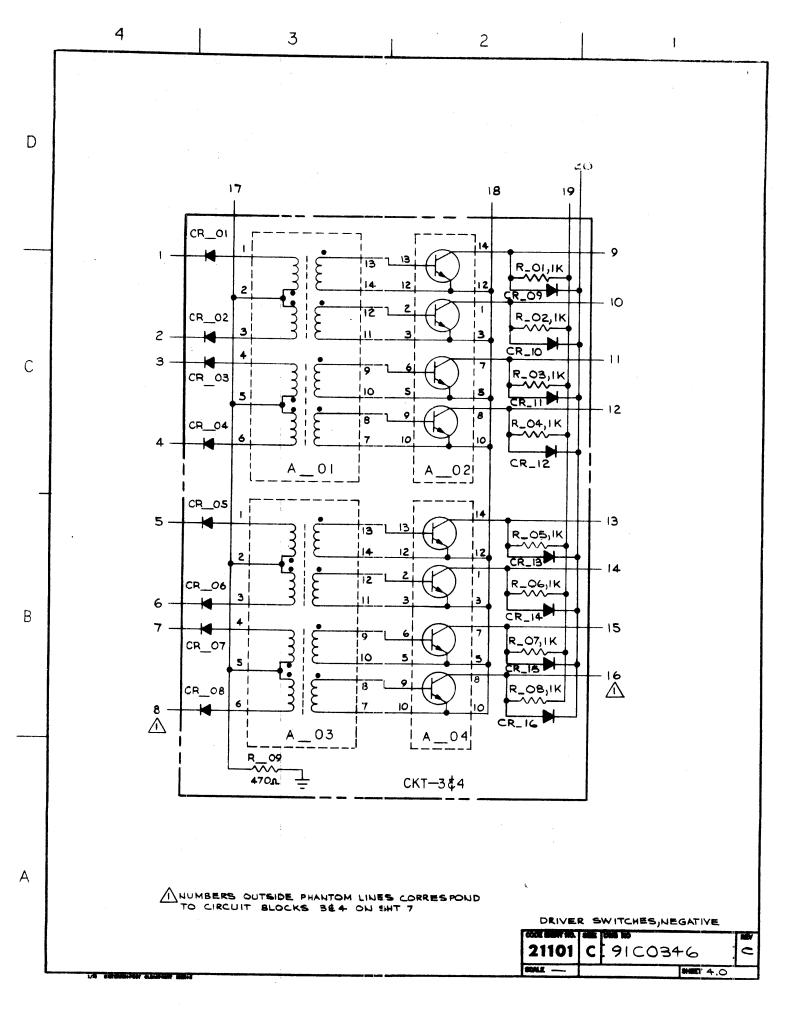
CONNECTOR PI

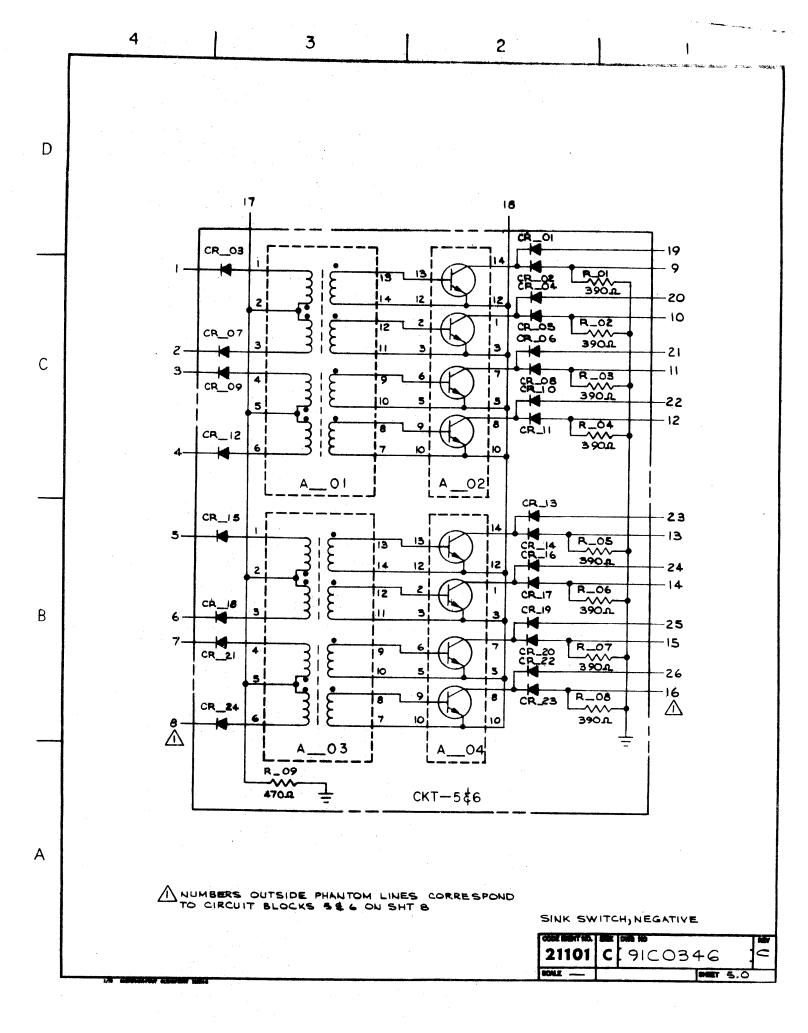
PINS	FUNCTION S	HEET	PINS	FUNCTION	SHEET	PINS	FUNCTION	SHEET
1	GRD		42	GRD	•	53	SPARE	7.0
2		:	45	LIIX+	8.0	64	CCIB	7.0
. 3	GRD		44	LIOX+	8.0	85	CCGA	7.0
4	-12~		45	GRD.	_	86	CCOB	7.0
5	GRD		46	LC9X+	8.0	87	CCTA	7.0
5 6 7 8	TCRX-	9.0	47	GRD		88	CC3B	7.0
7	Y568	8.0	48	見る。TX-	9.0	89	CC+A	7.0
8	YS6A	8.0	49	GRD		90	CCSB	7.0
9	YS78	8.0	50	-× T& W	9.0	91	CCSA	7.0
10	YSTA	8.0	51	GRD		92	CC58	7.0
11	YS48	8.0	52	STILX-	9.0	93	CCZA	7.0
12	7 54 A	8.0	53	GRD		94	CC48	7.0
13	YSBB	8.0	54	FC SX+	9.0	95	CCBA	7.0
14	YSBA	8.0	55	GRD		96	CC7B	7.0
15	YS2B	8.0	56	LOSX+	7.0	97	CCOA	7.0
16	YSZA	8. 0	57	GRD		98	CCGB	7.0
17	YSSB	8.0	36	SDIS	7.0	99	CCIA	7.0
18	YSBA	8.0	59	GRD		100	XS6A	8.0
. 19	YSOB	8.0	60	RYXX-	7.0	101	XS4B	8.0
20	YSOA	60	61	NOT AVAIL		102	XS7A	8.0
21	YSIS	6.0	62	HOT AVAIL	VACE	103 104	XS7B XS4A	8.0 8.0
2 2 23	YSIA	8.0	63	GRD	7.0	105	X64B	8.Q
23 24	CAGA	7.0	64 4 5	LO4X+ GRD	7.0	106	XSSA	8 .0
2 5	CA7A	7.0 7.0	66	LOIX+	7.0	107	XSSB	8.0
26	CAOB	7.0	67	GRD	7.0	108	ASZA	8.0
27	CAAA	7.0	68	LOOX+	7.0	109	X52B	8.0
28	CASB	7.0	69	GRD	,	110	ABBX	8.0
29	CABA	7.0	70	LC 3X+	7.0	111	XS3B	8.0
30	CAZB	7.0	71	GRD		112	XSOA	8.0
31	CA2 A	7.0	72	RW/T 2-	9.0	113	-127	U . –
32	CA7B	7.0	73	GRD		114	XSIA	8.0
33	CABA	7.0	74	LIEX+	9.0	115	XSOB	8.0
34	CAGB	7.0	75	GRD		116	+57	
35	CAOA	7.0	76	RW/TI-	9.0	117	XSIB	8.0
36	CASS	7.0	77	GRD		118		
37	CAIA	7.0	78	LCBX+	8.0	119	+12V	
38	CA4B	7.0	79	LC7X+	8.0	120	+12V	
39	SPARE	7.0	80	LC:6X+	8.0	121	GRD	
40	SPARE	7.0	81	GRD		122	GRD	
41	GRD		82	GRD				

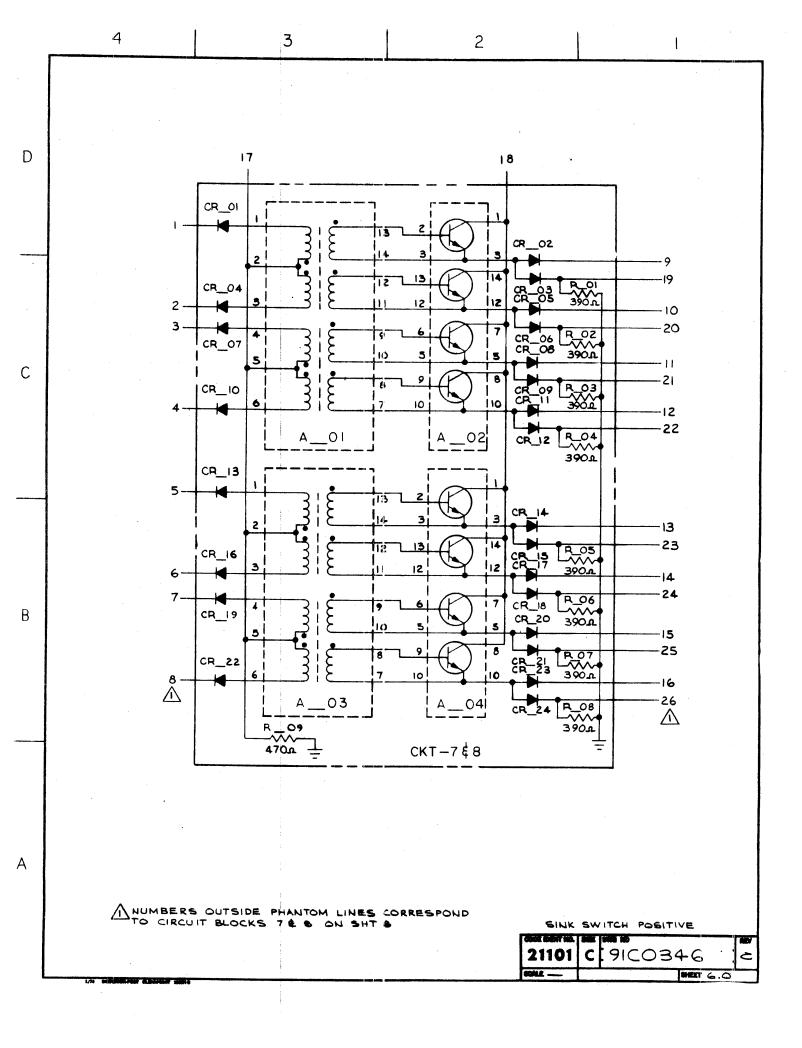
CONNECTOR FUNCTIONS

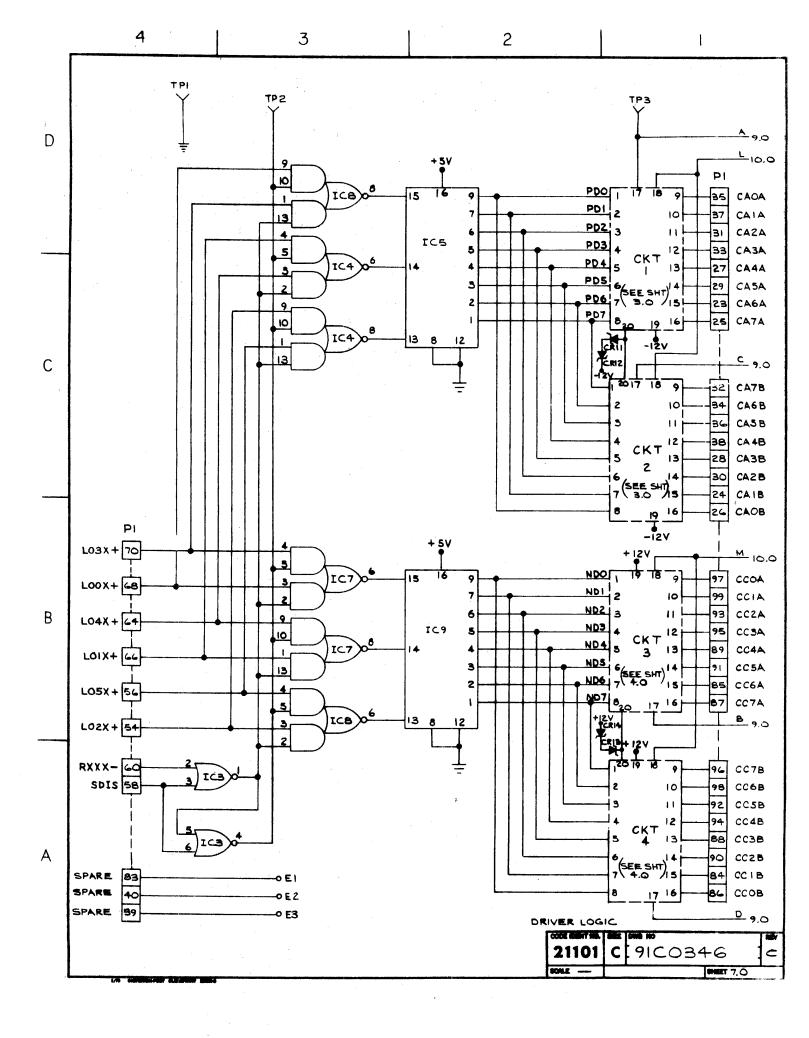
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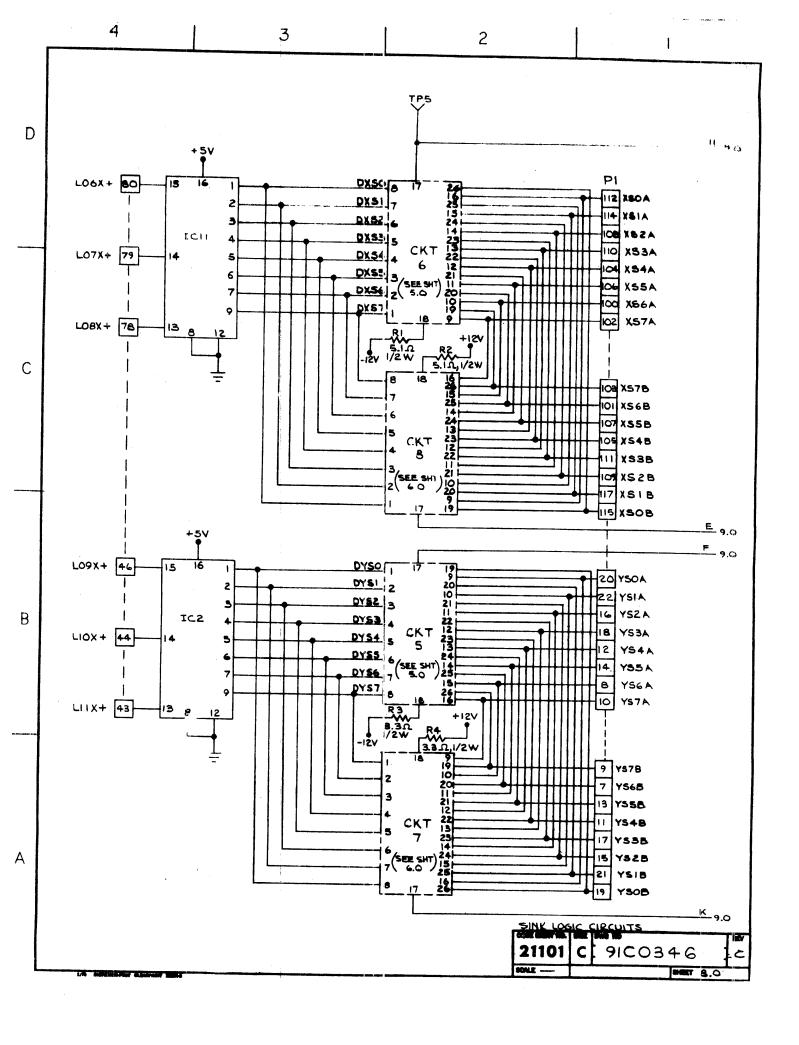


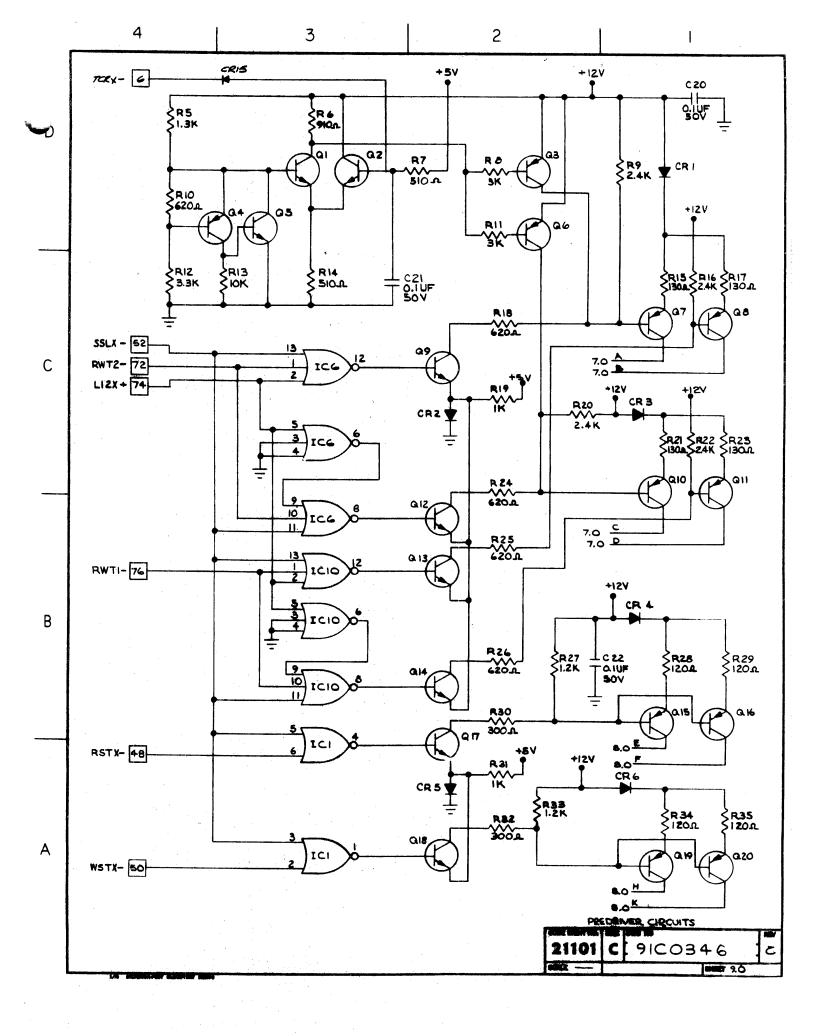


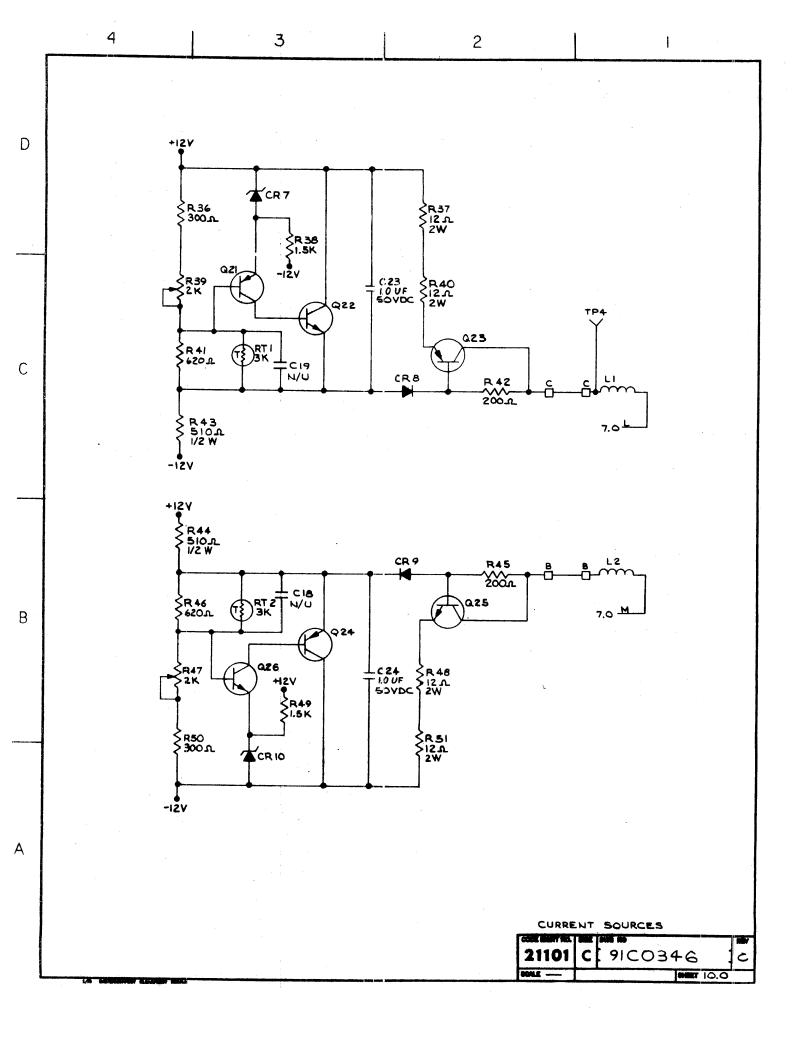


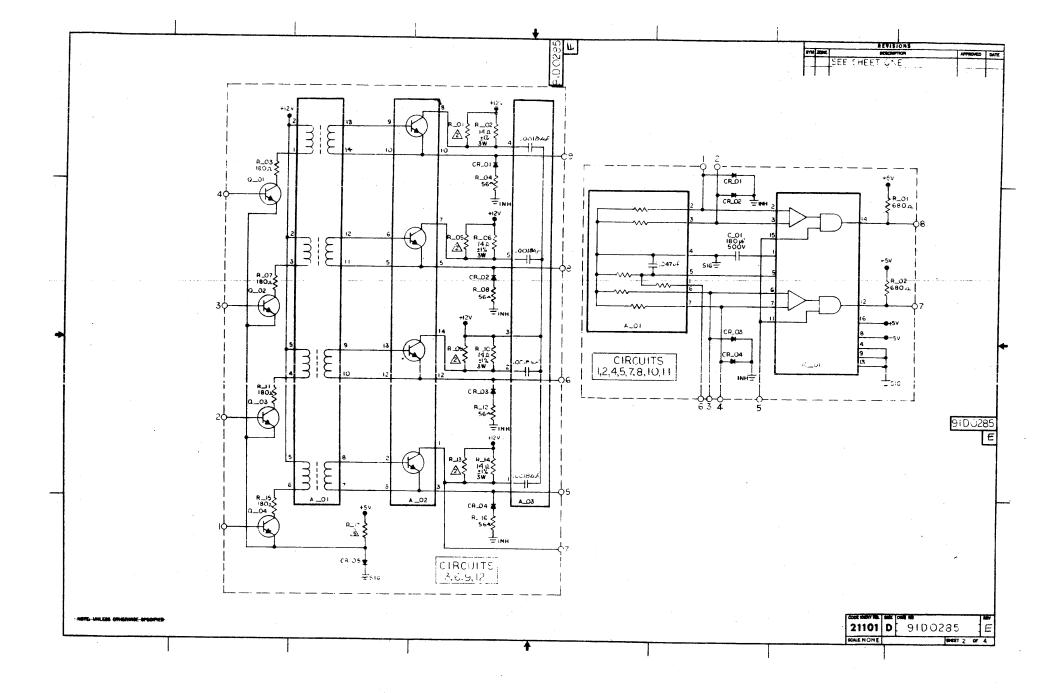


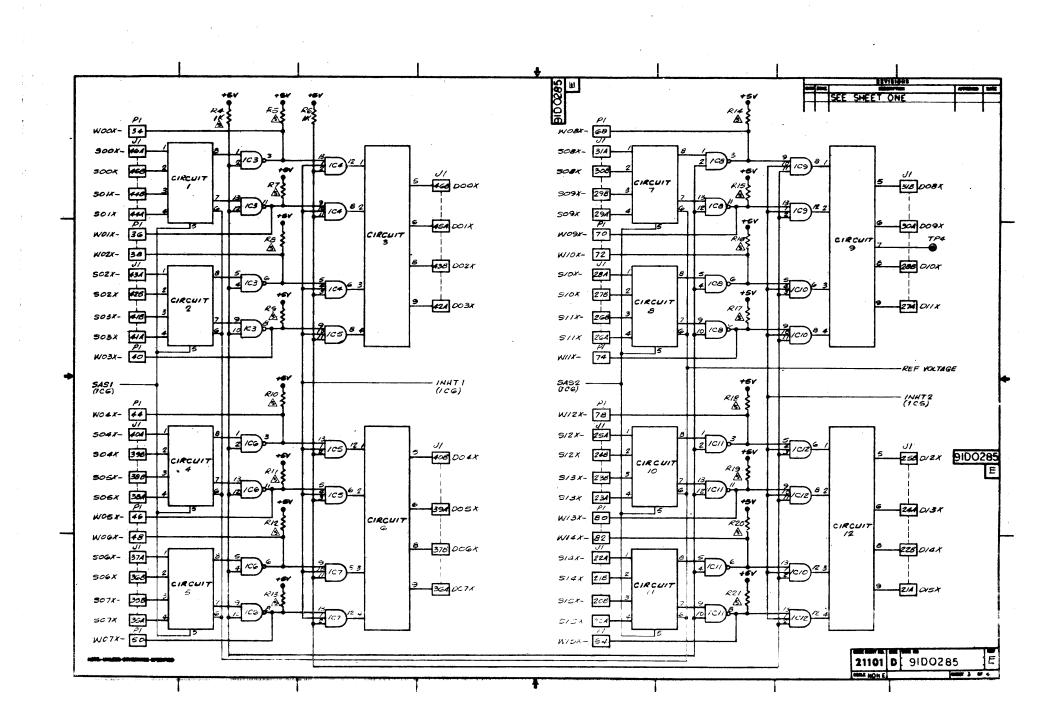


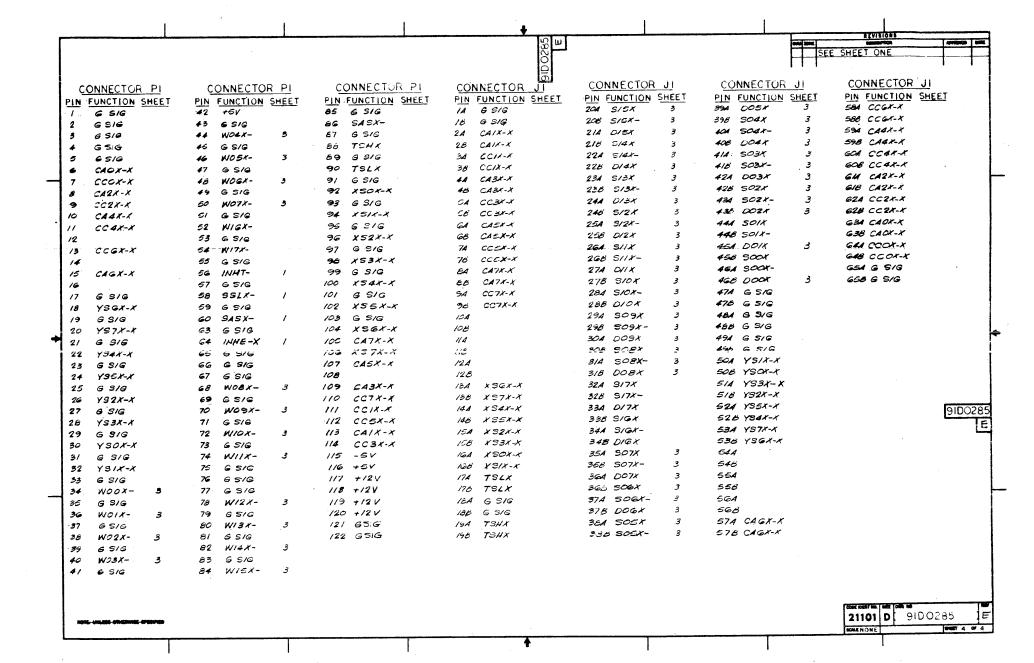


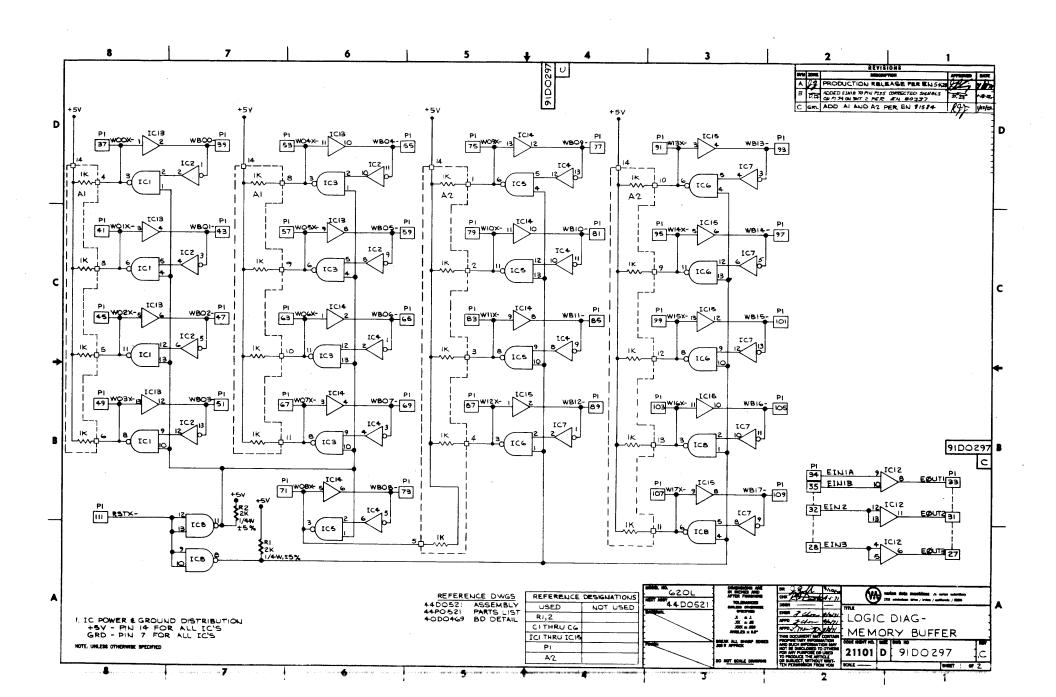


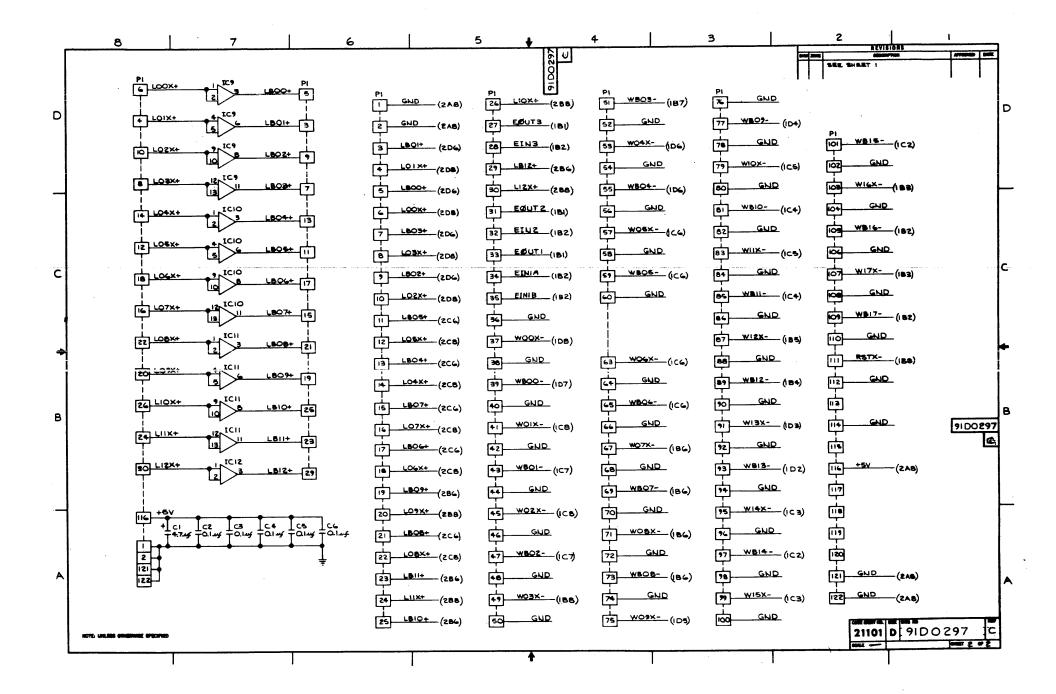


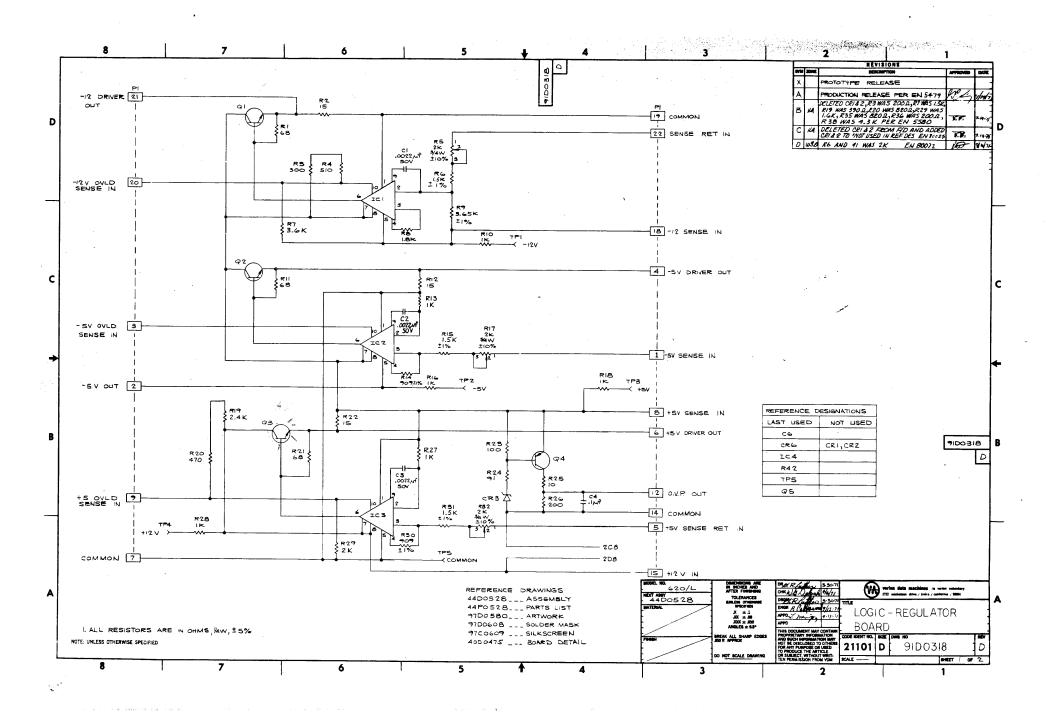


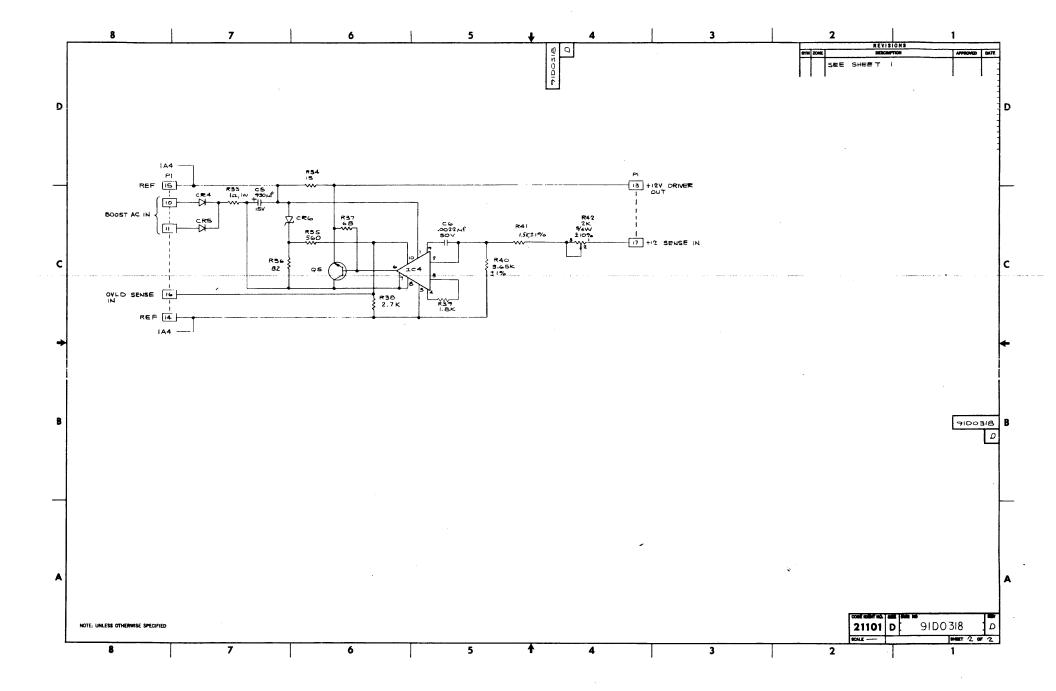


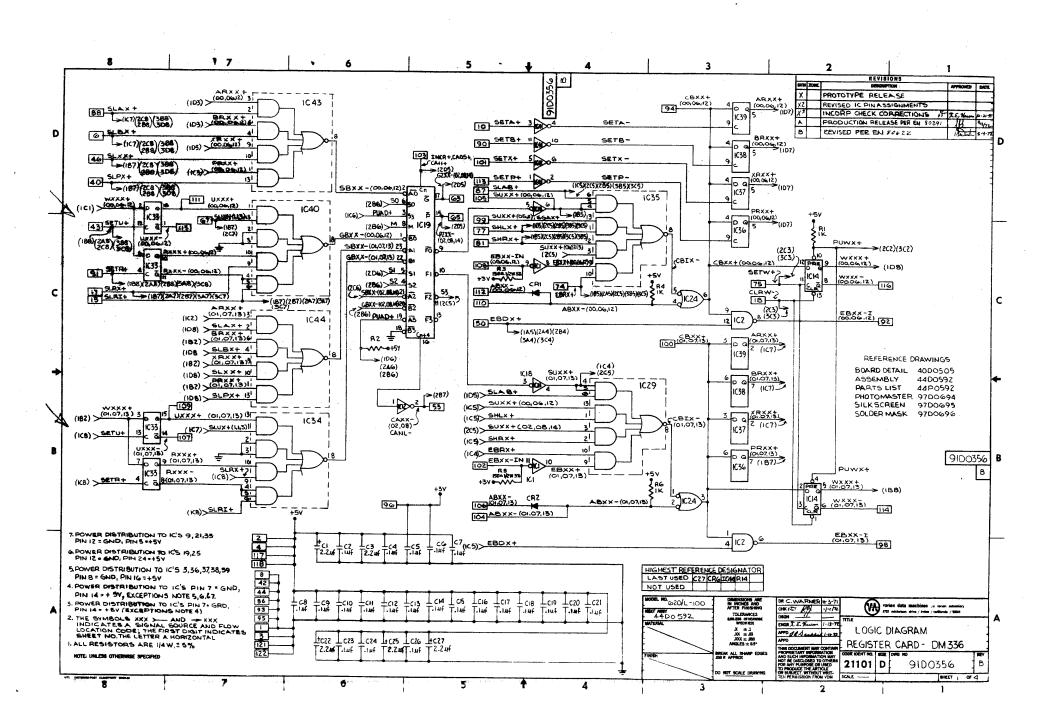


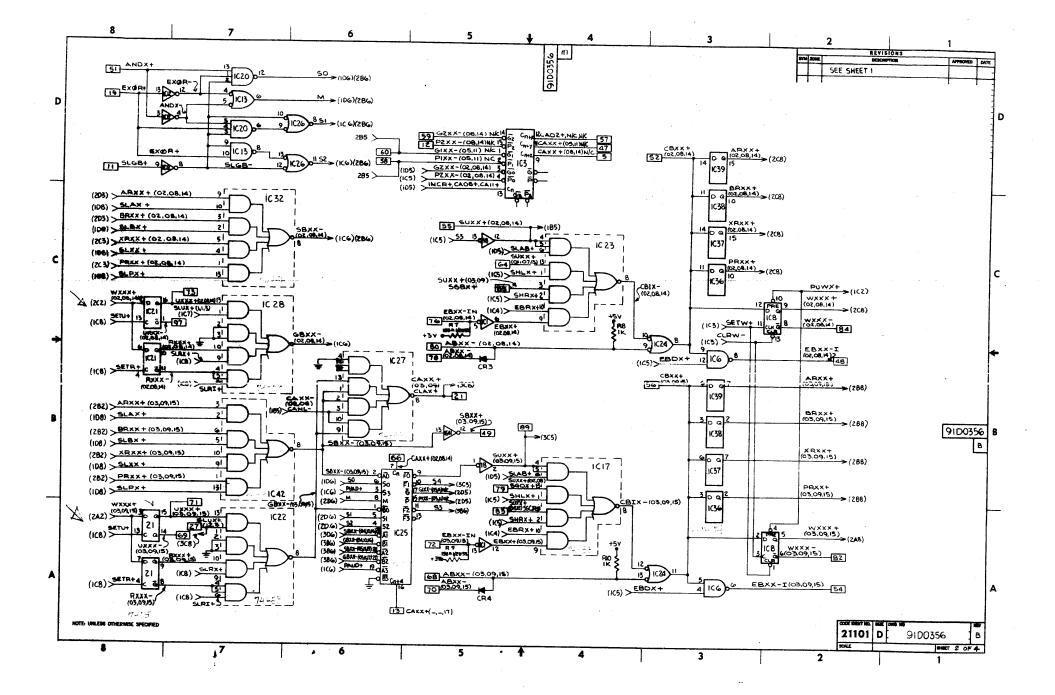


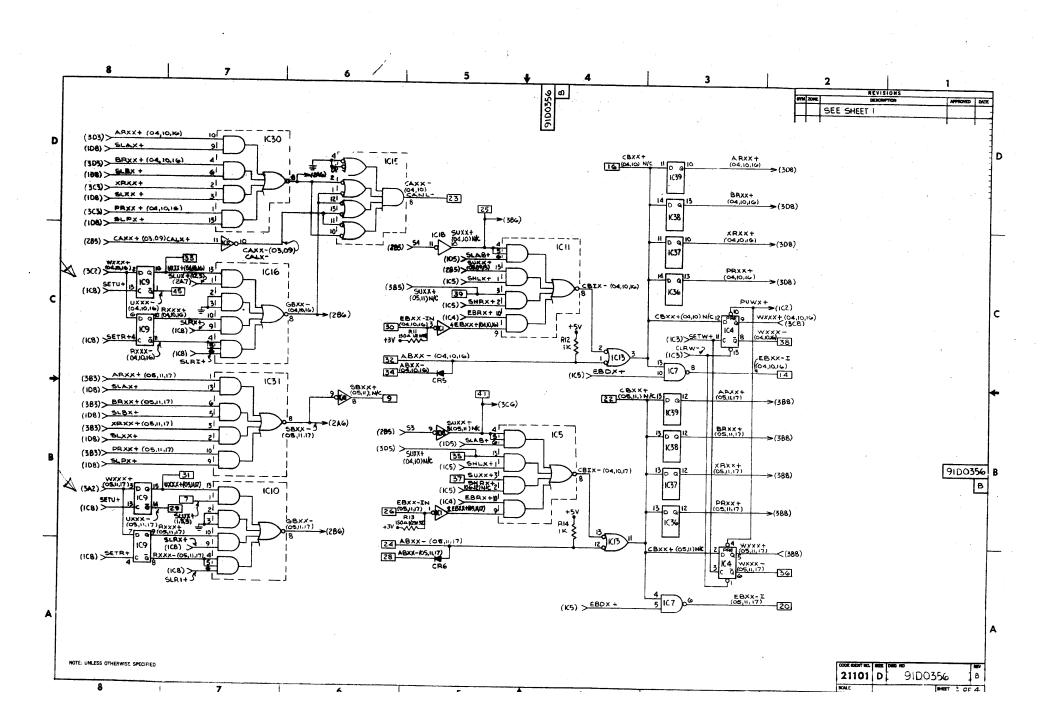


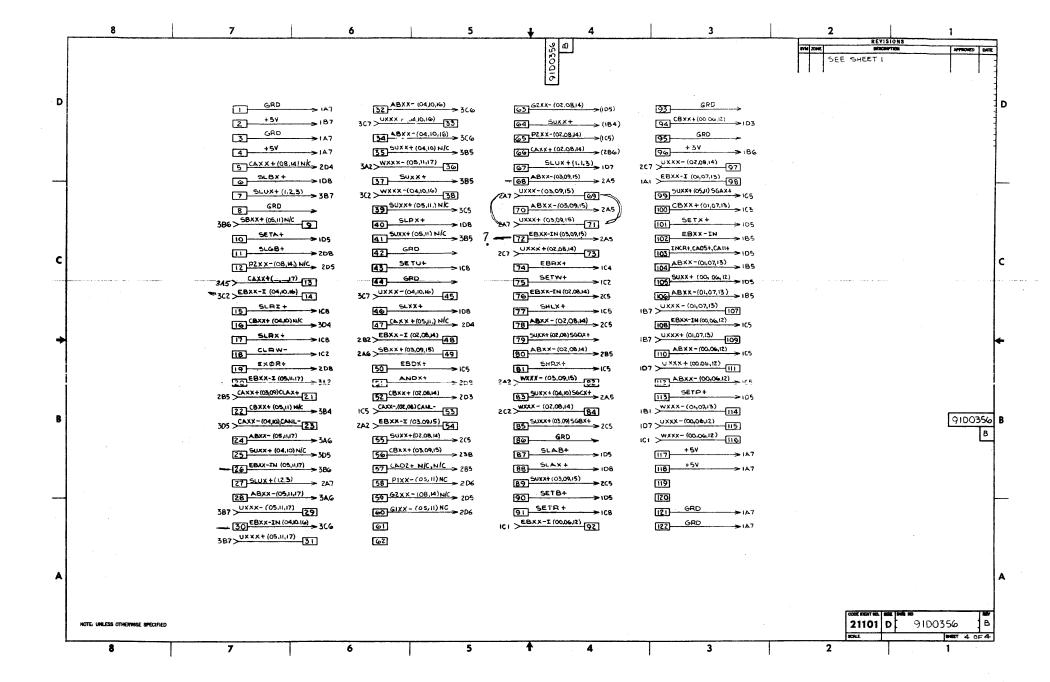


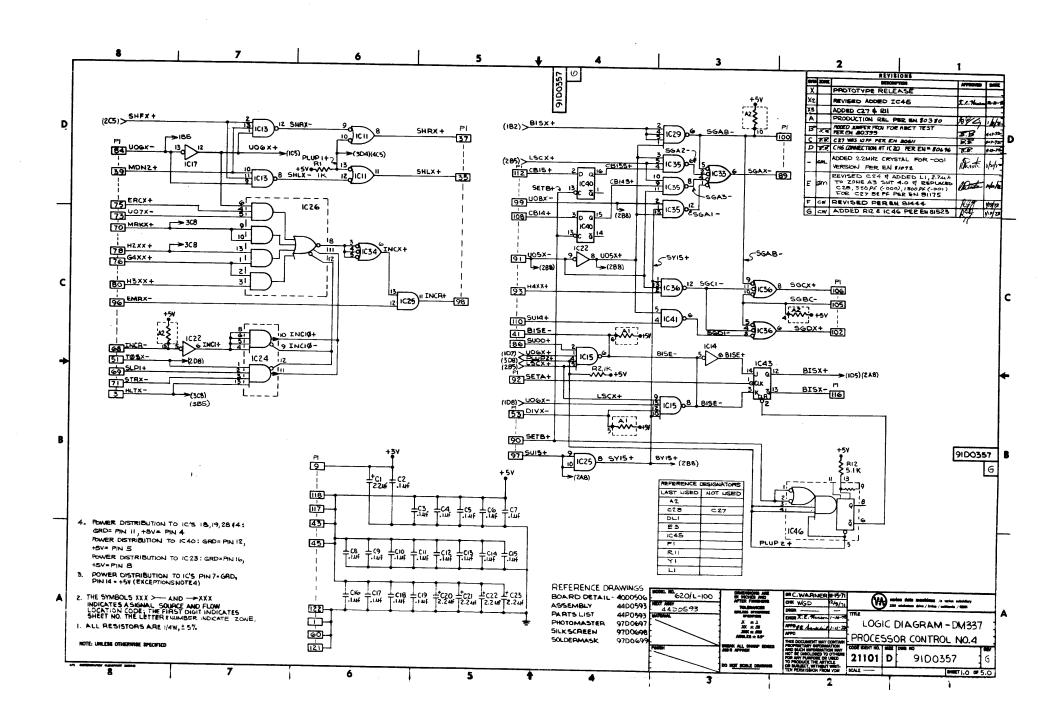


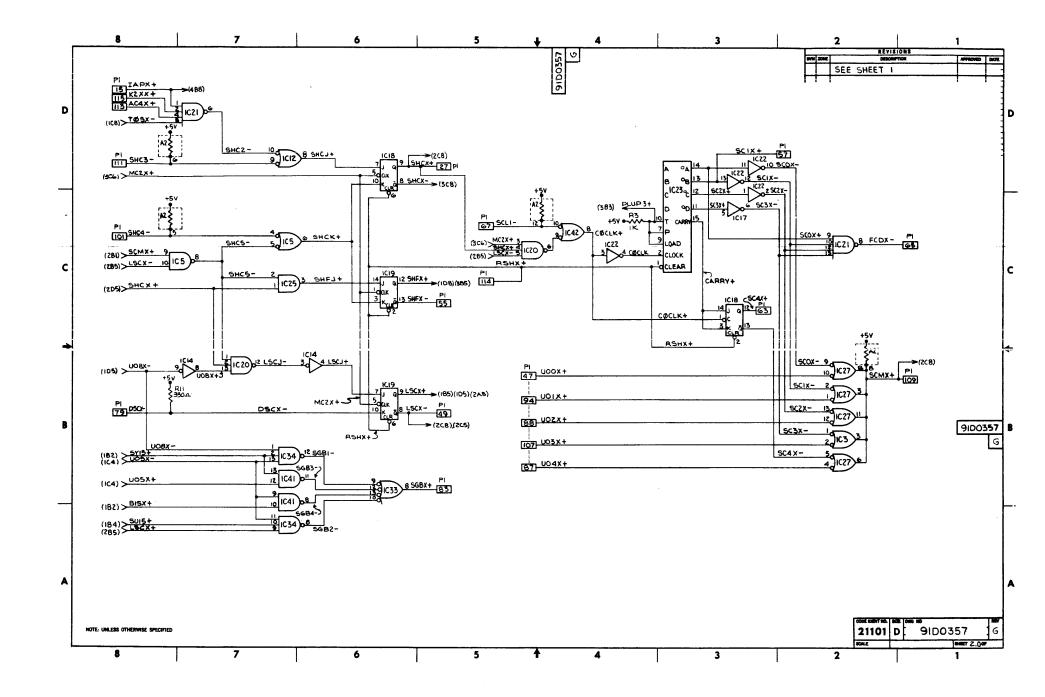


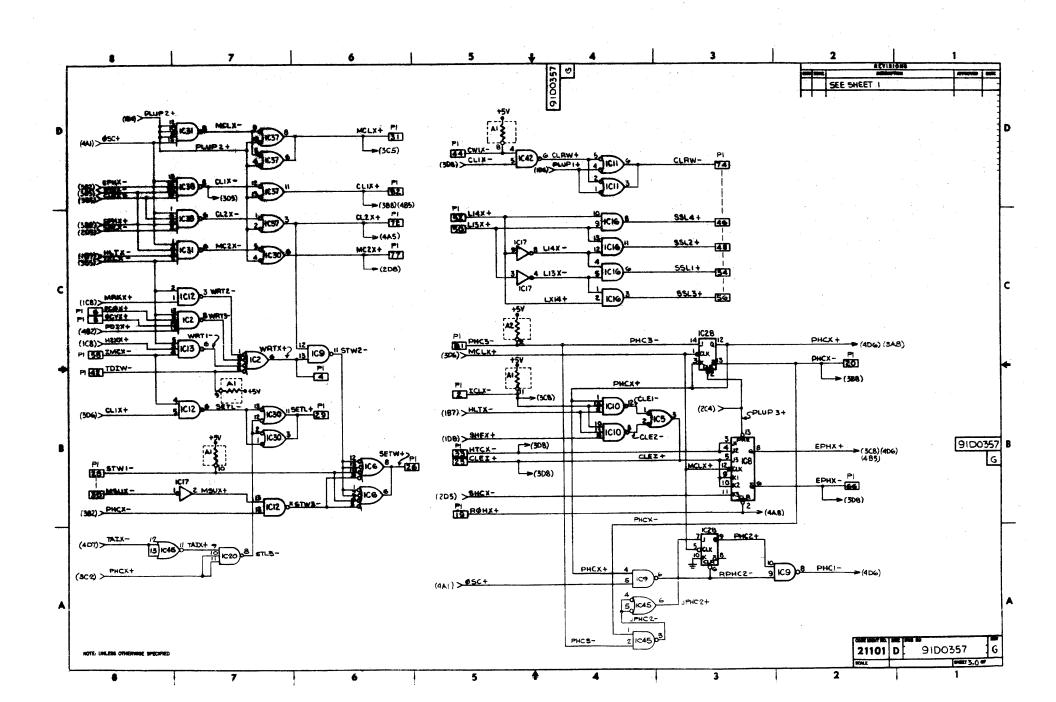


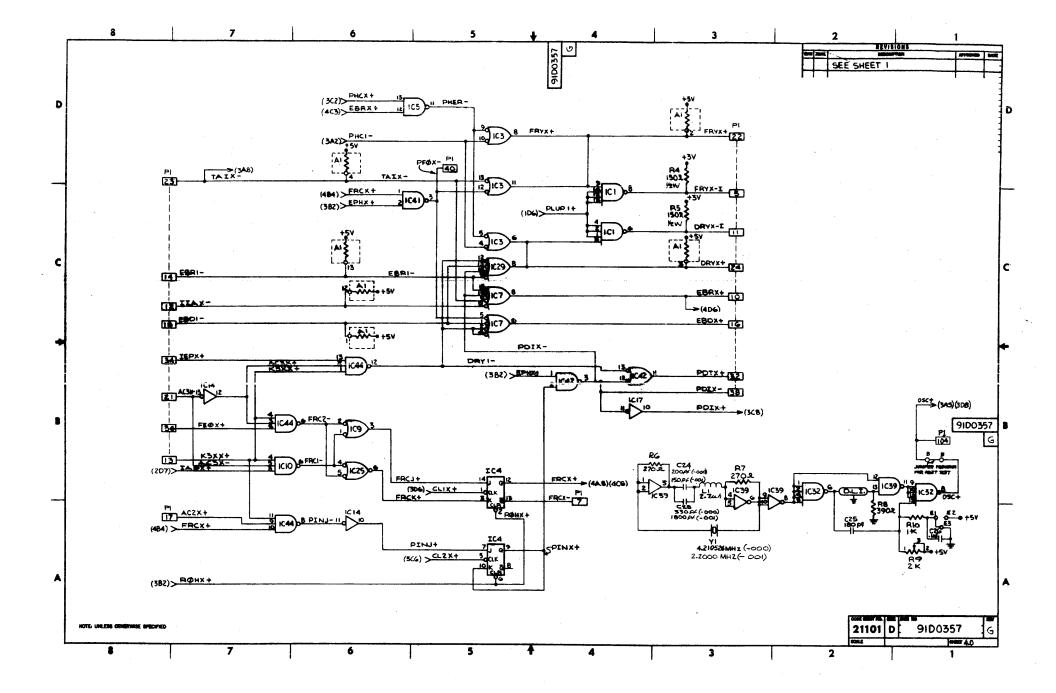


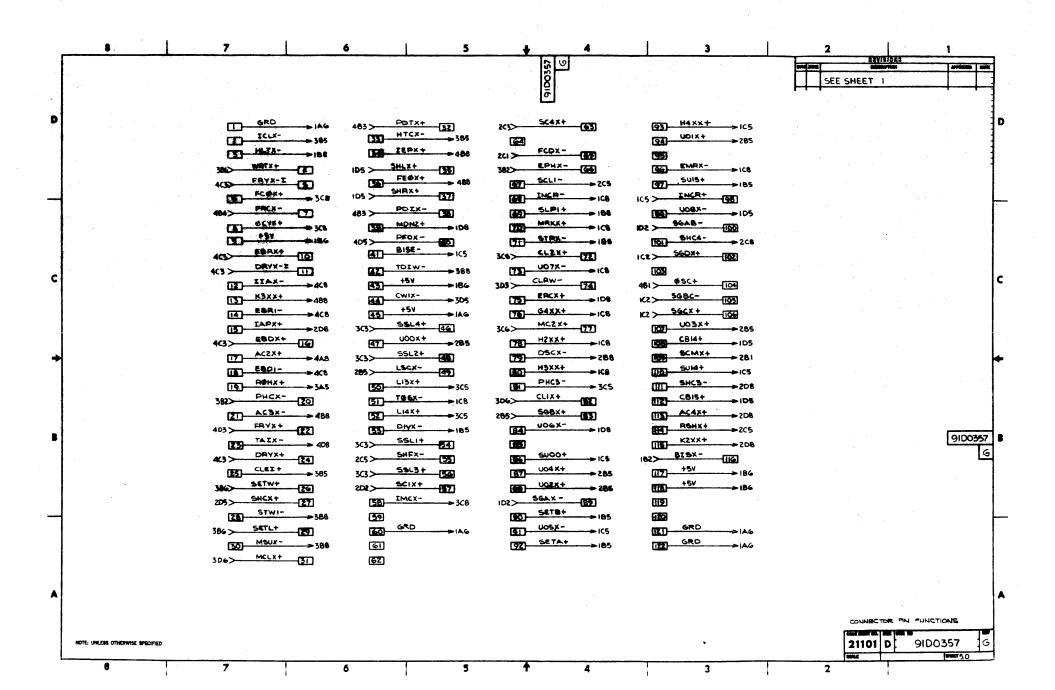


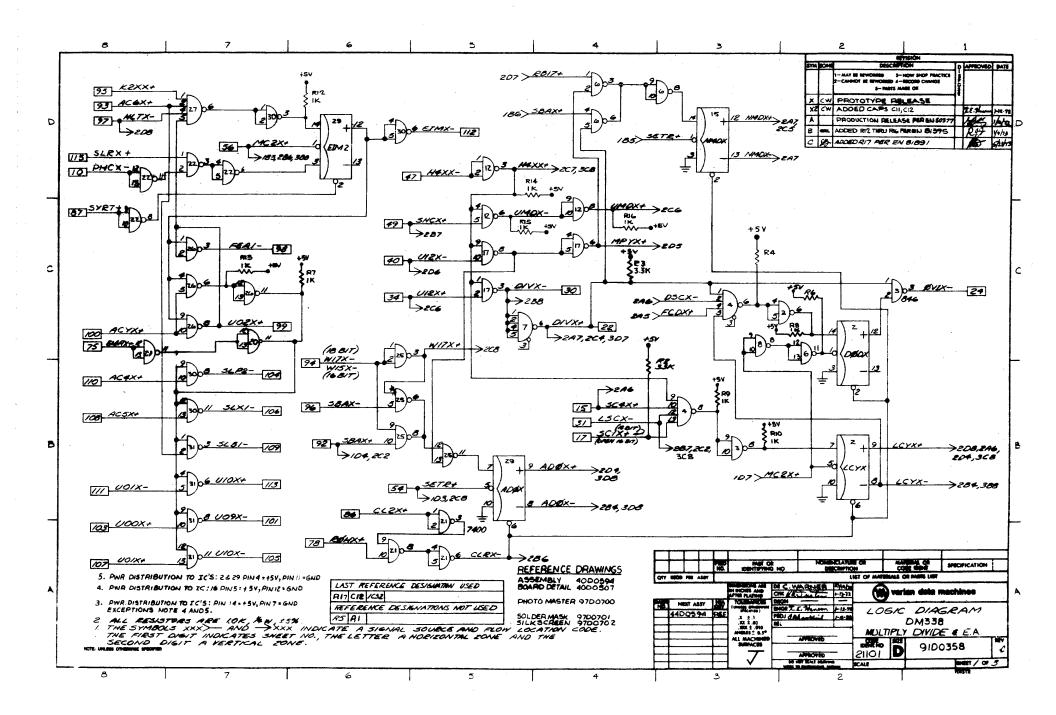


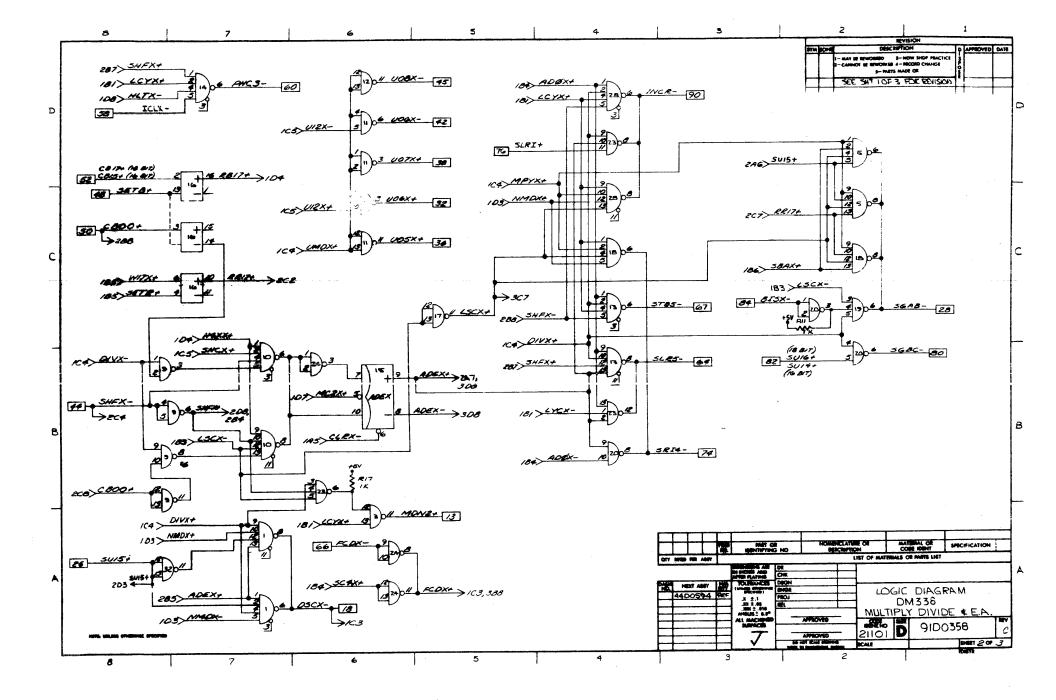


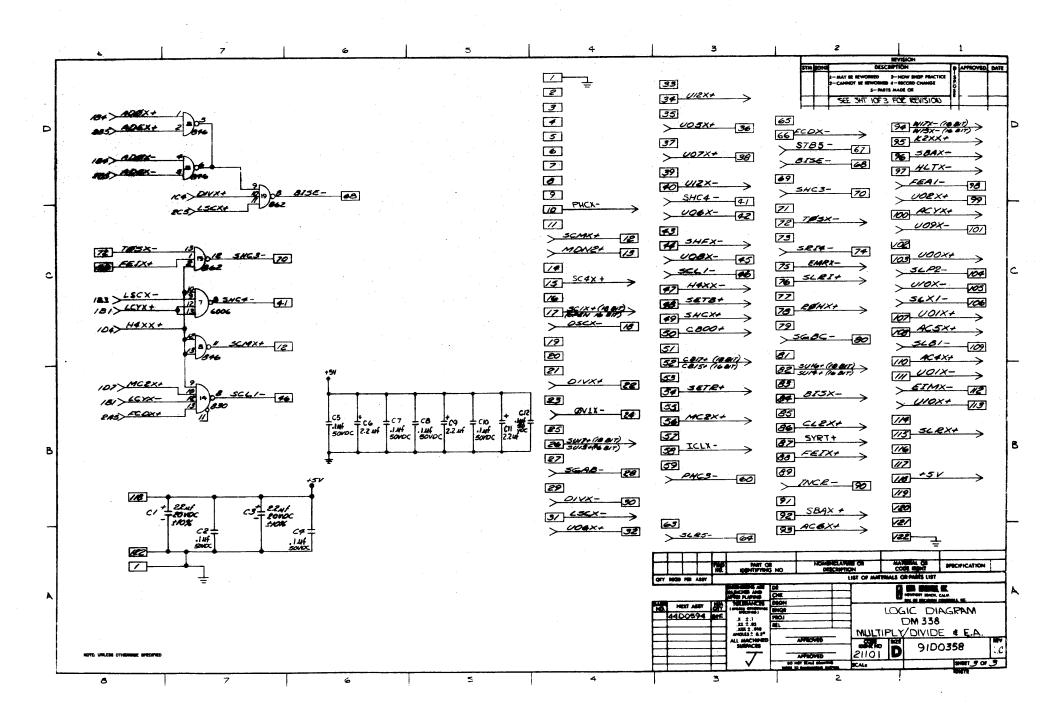


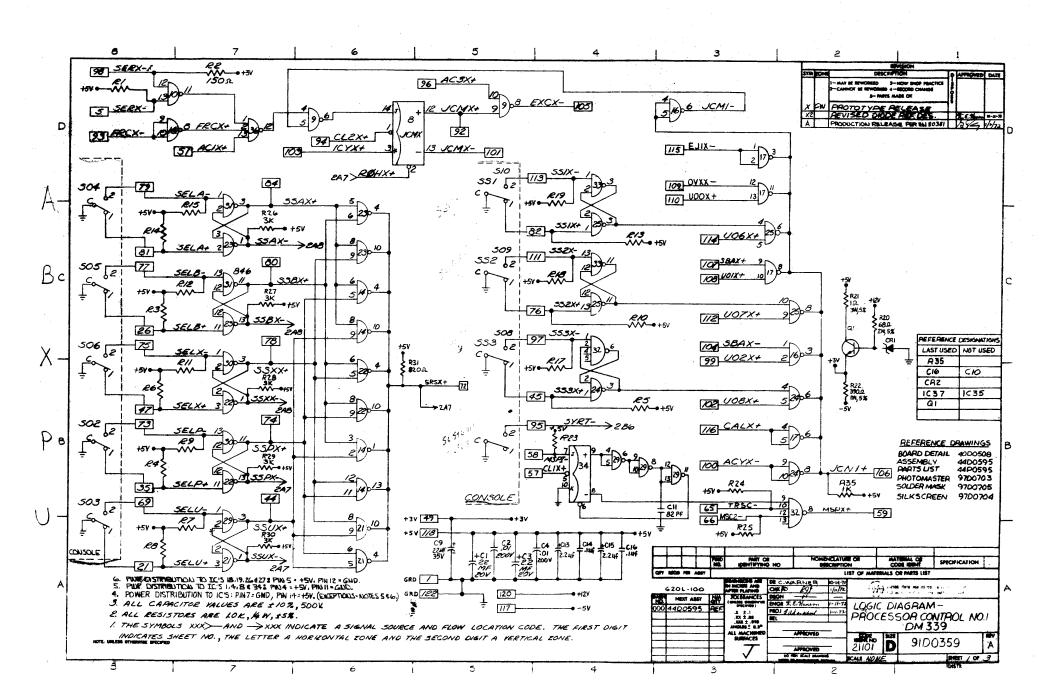


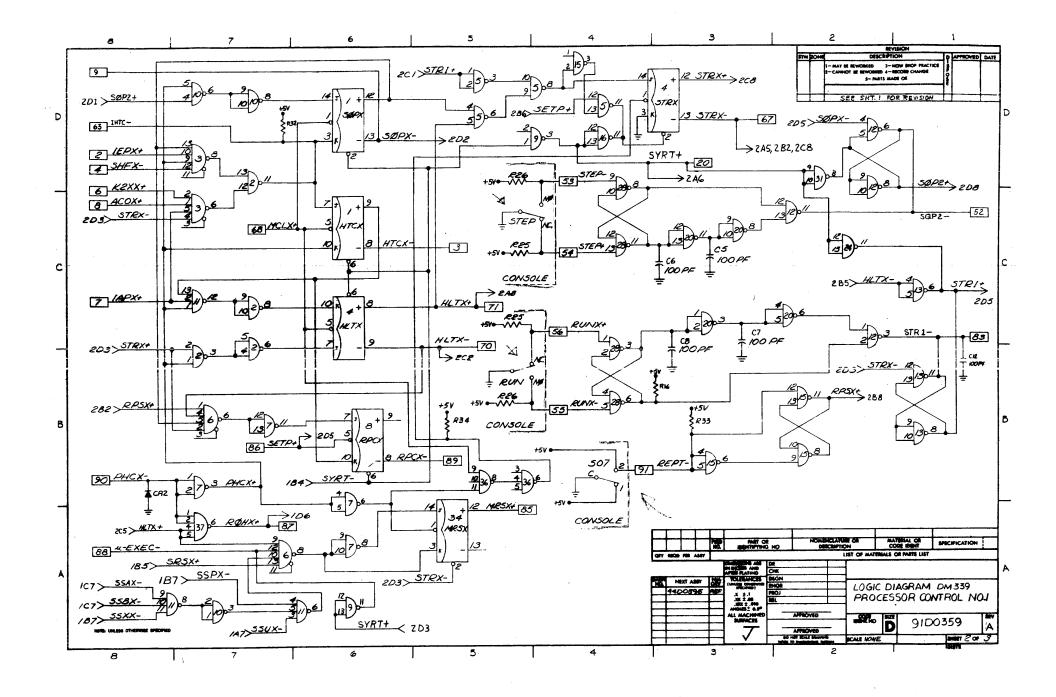


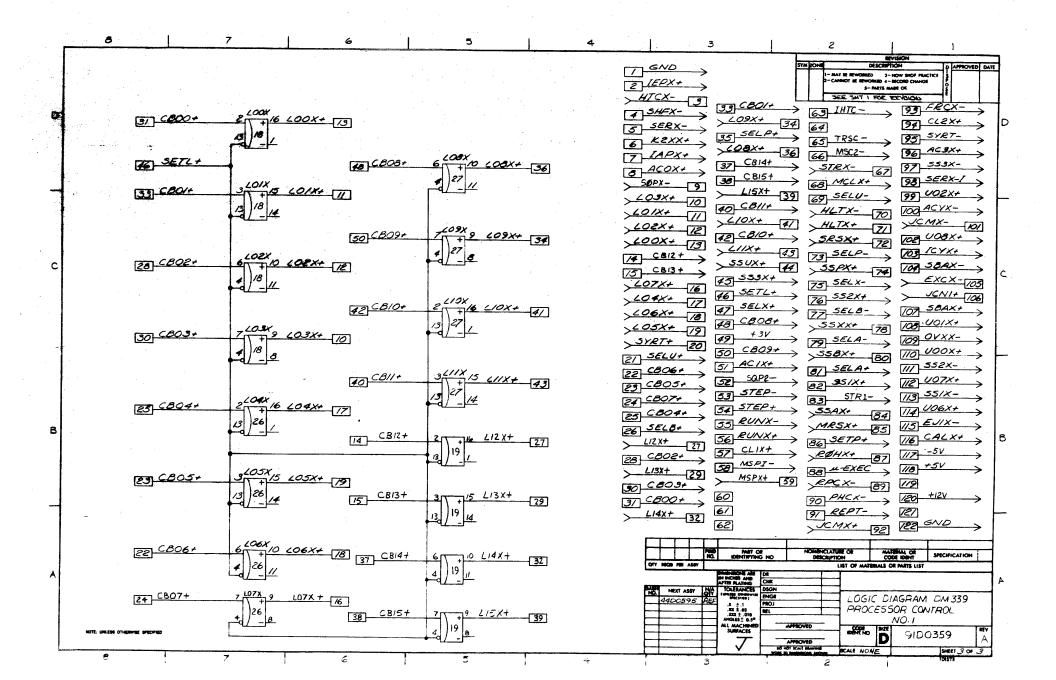


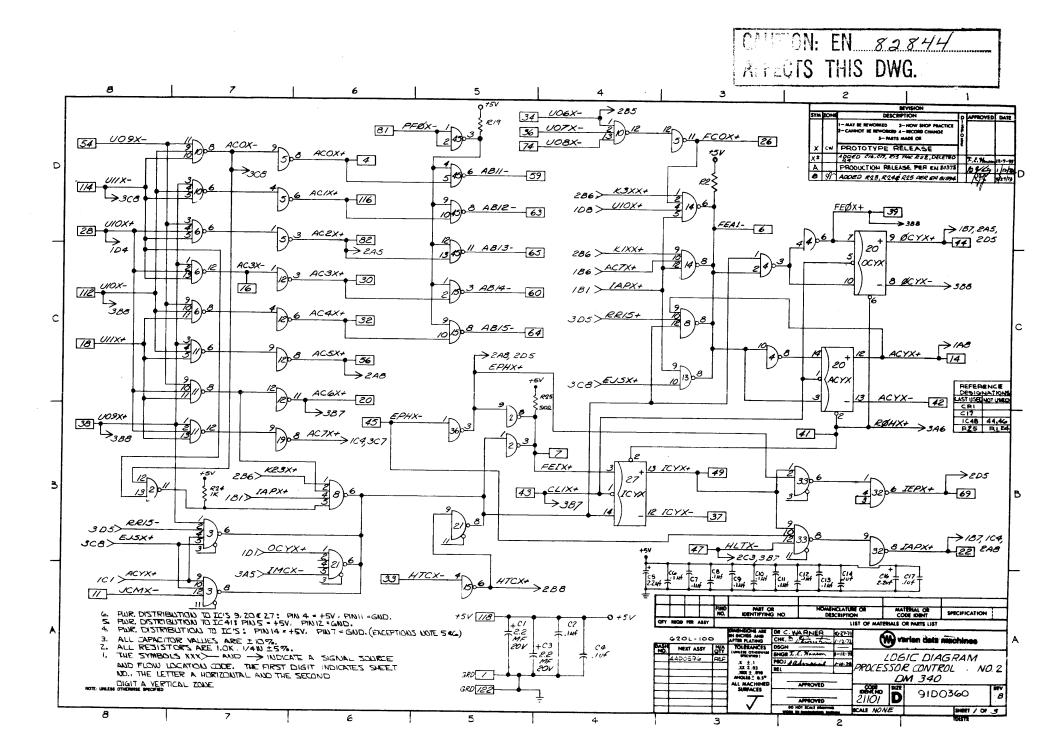


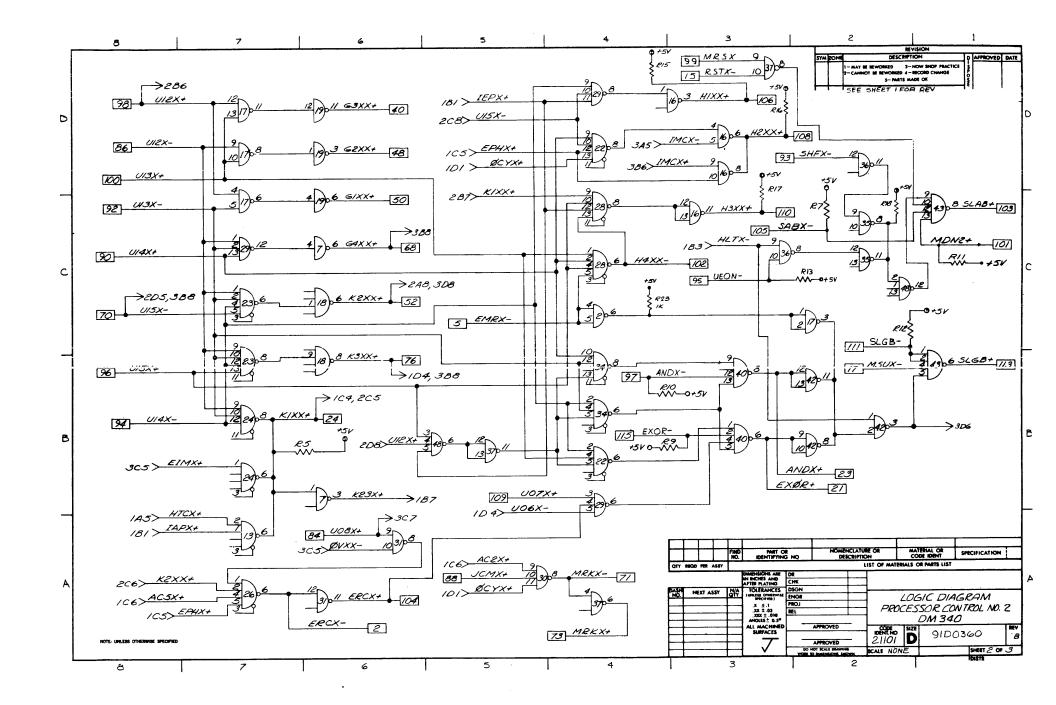


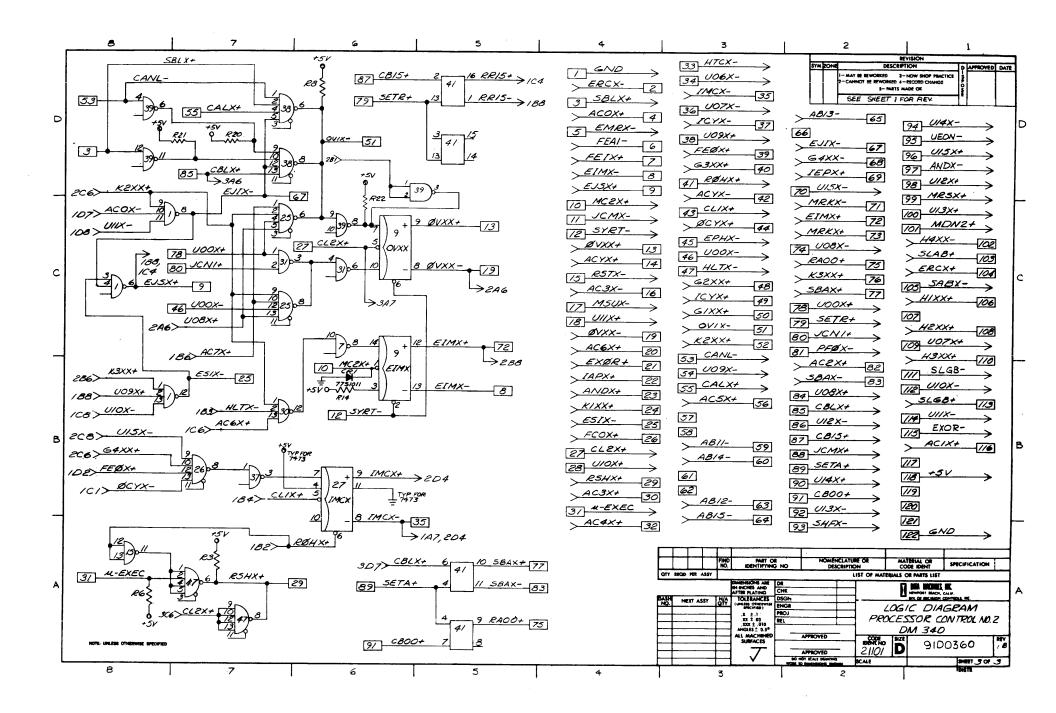


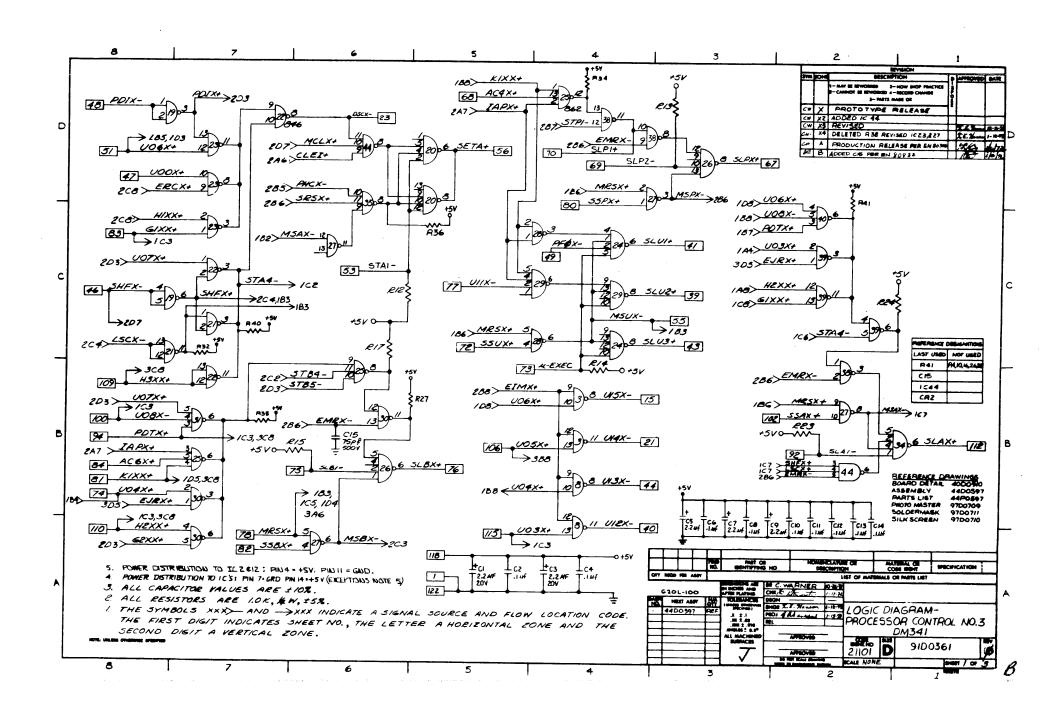


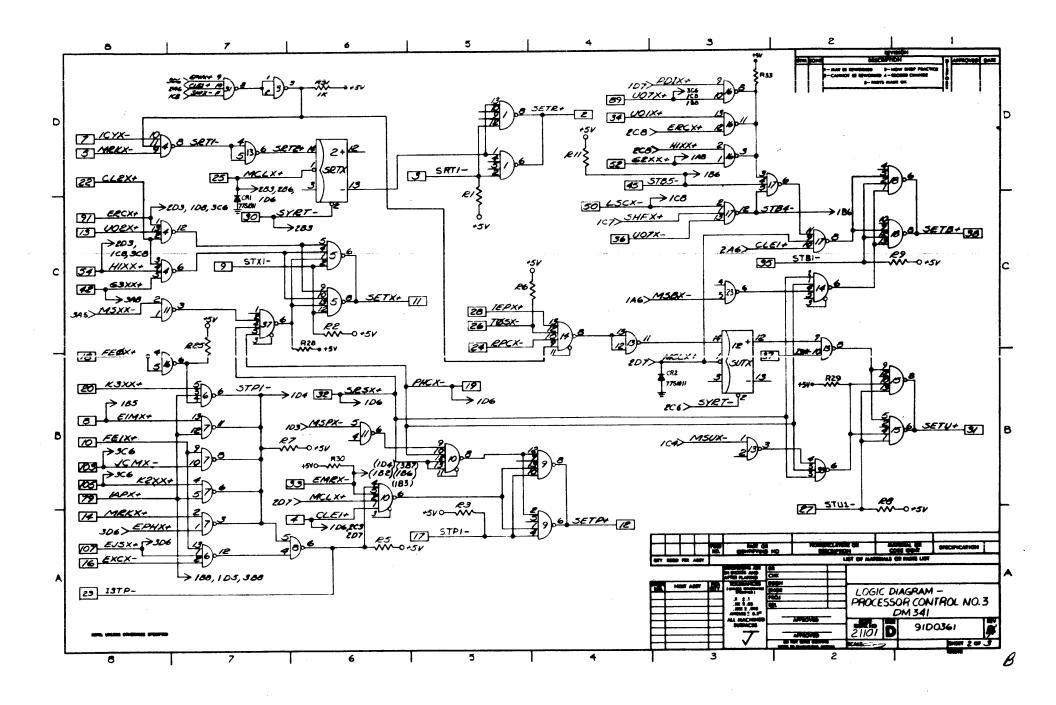


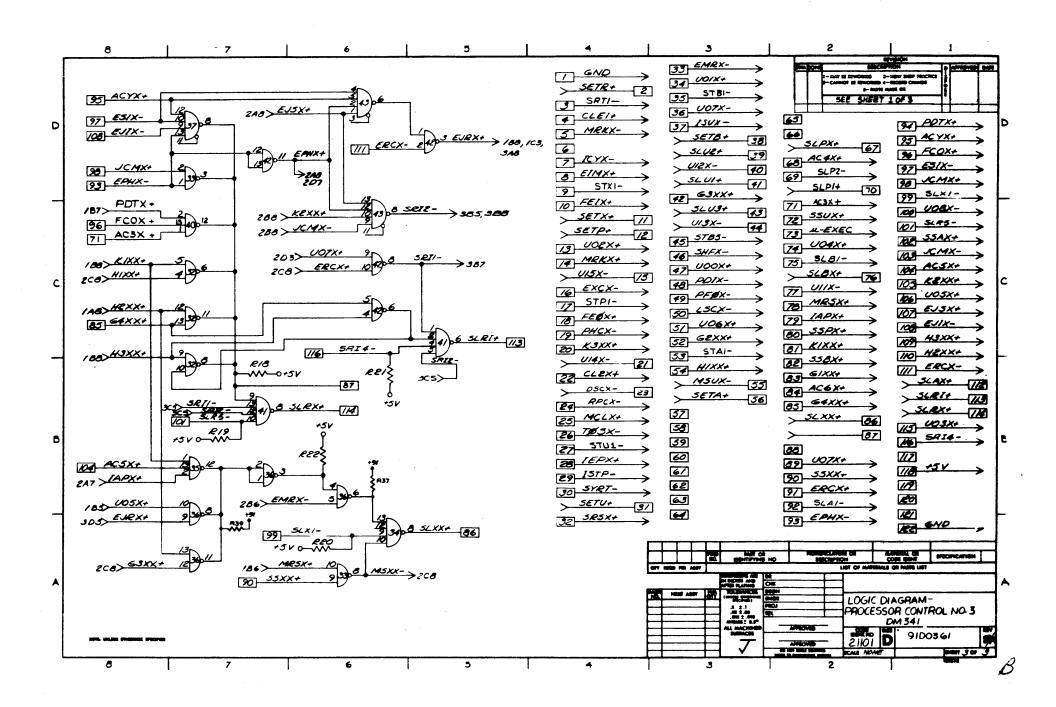


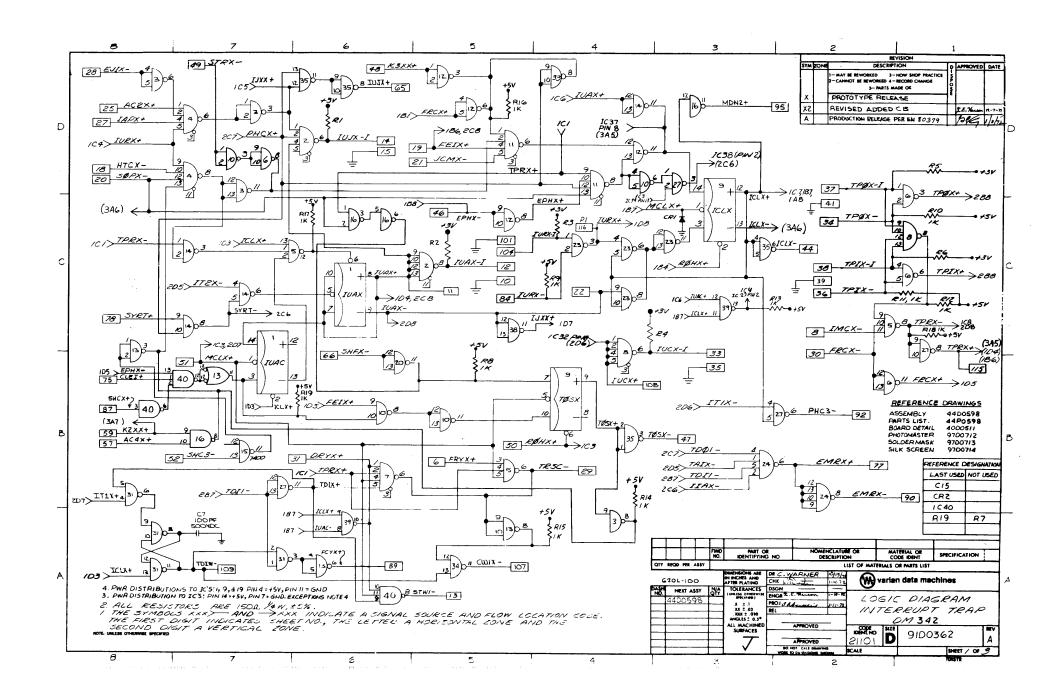


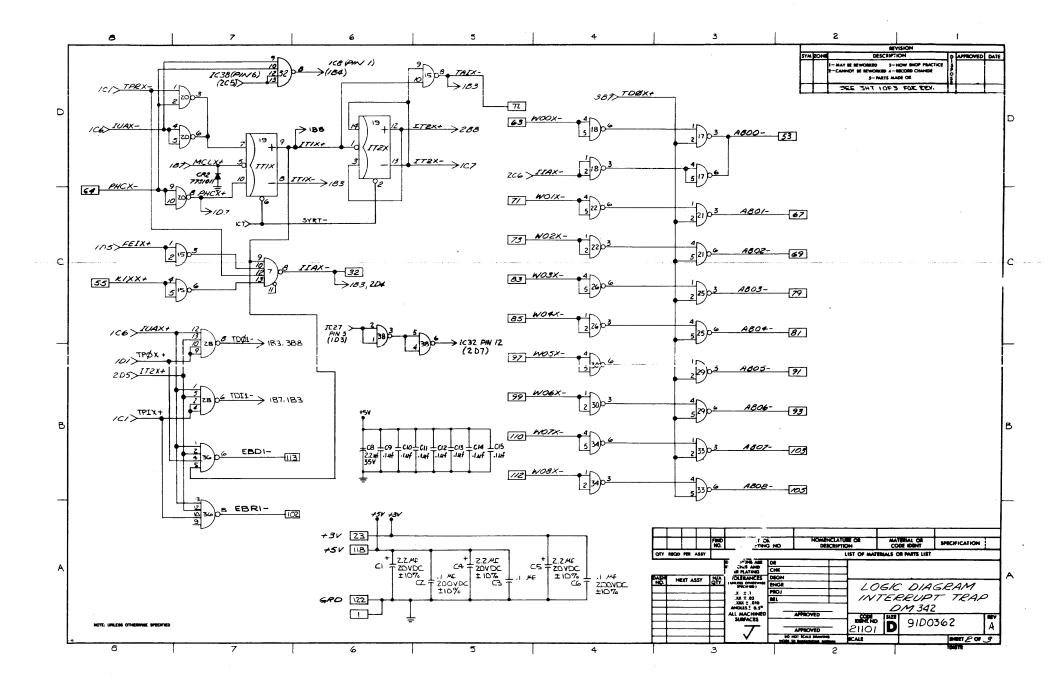


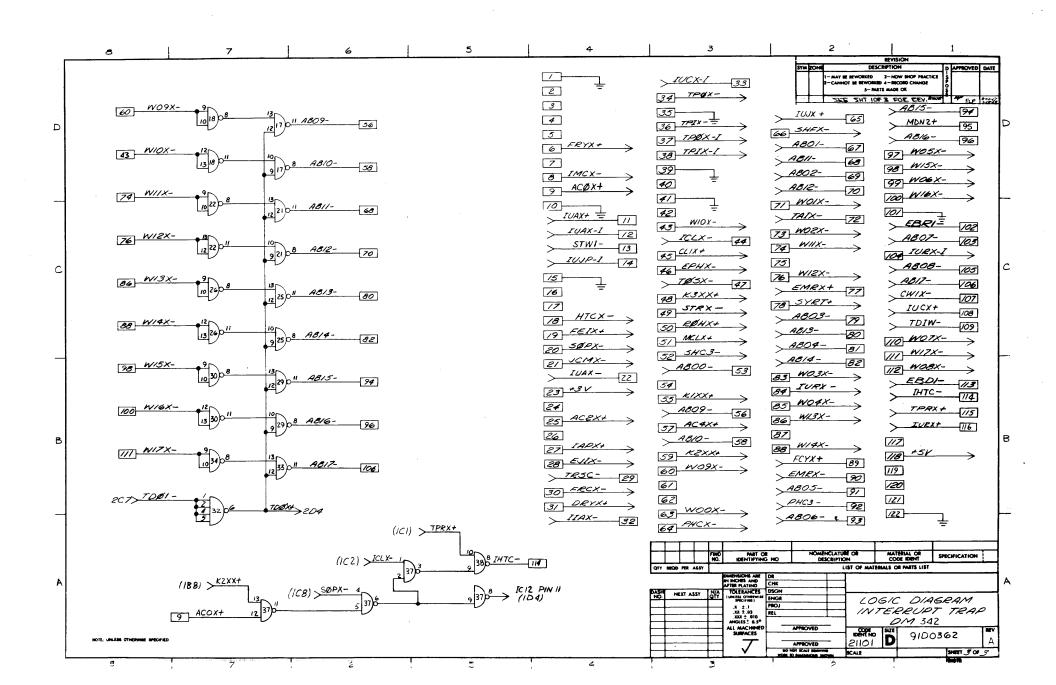


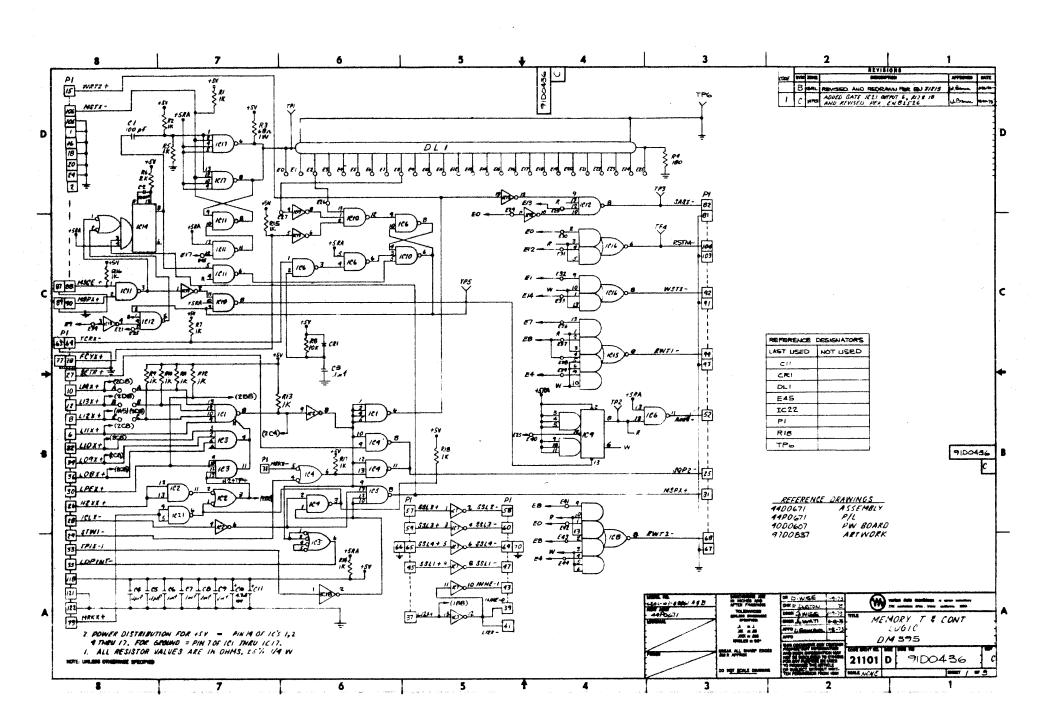


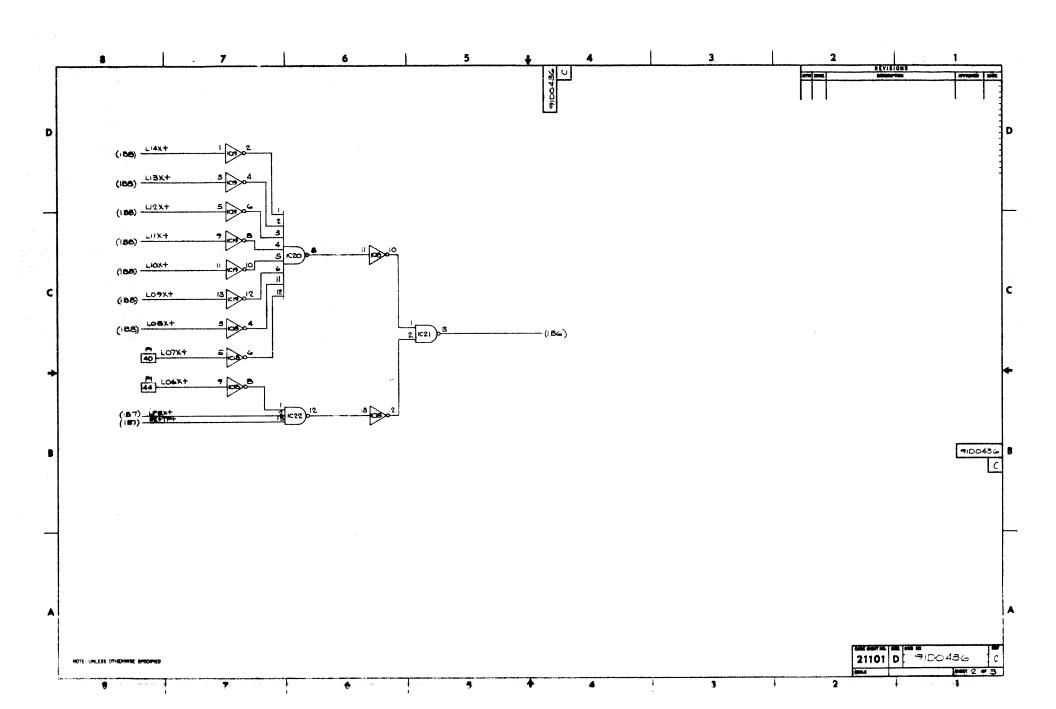


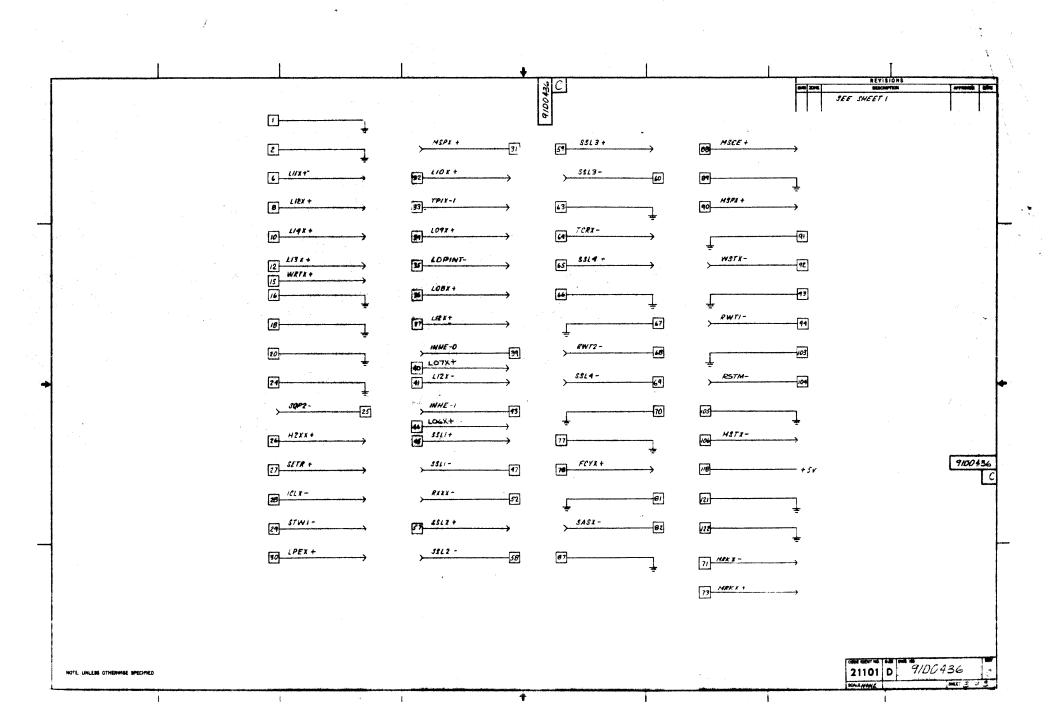


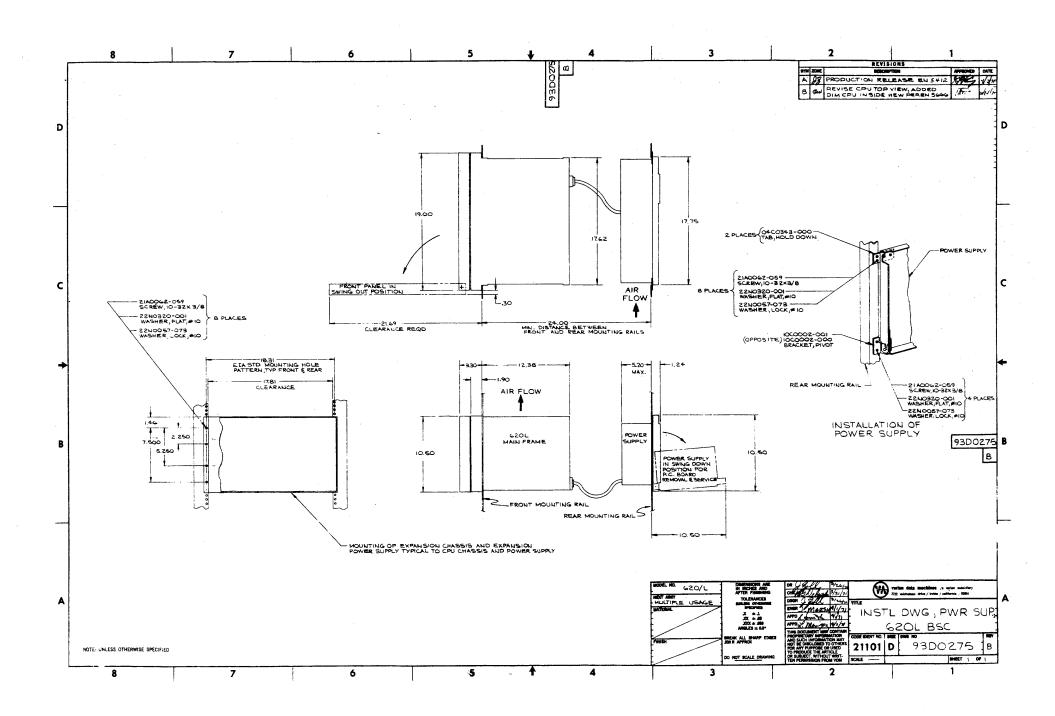


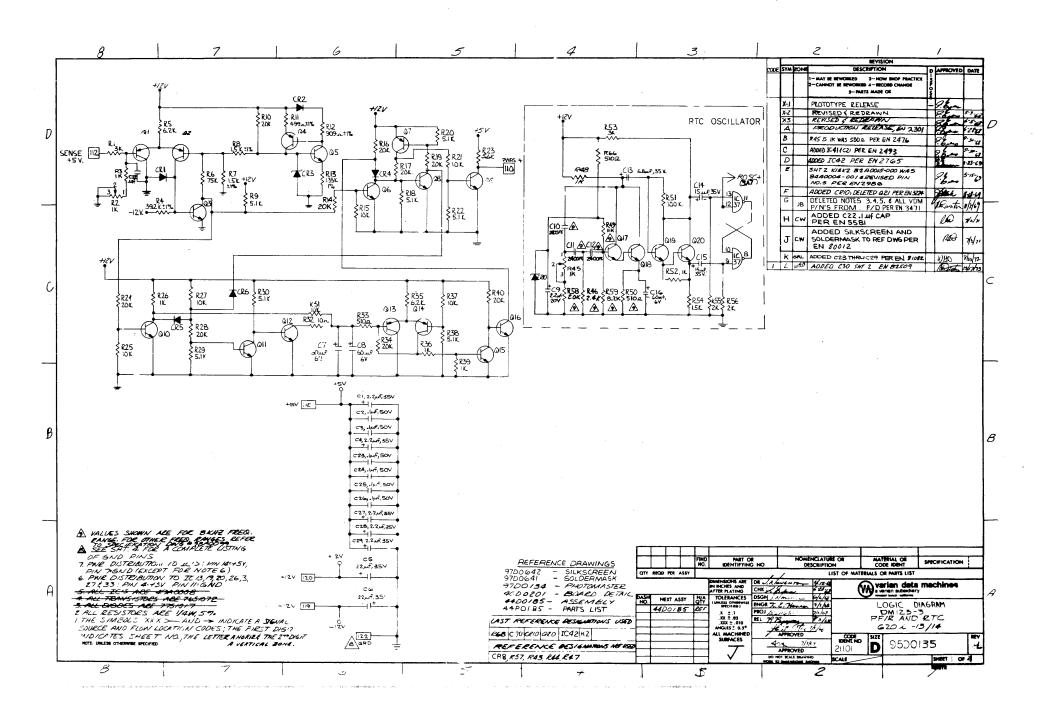


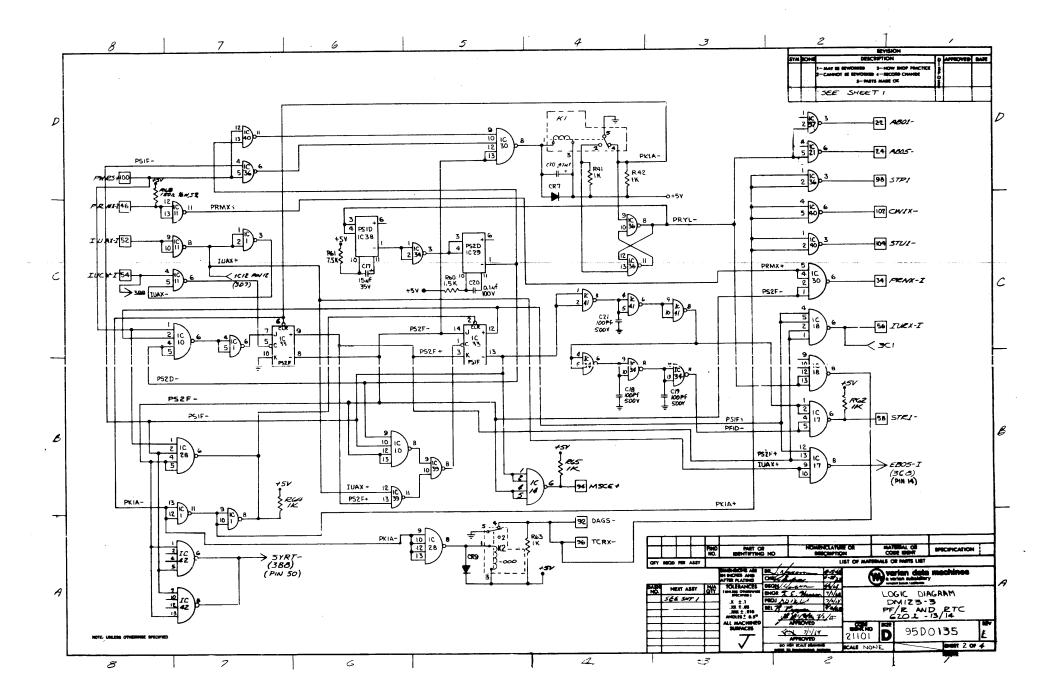


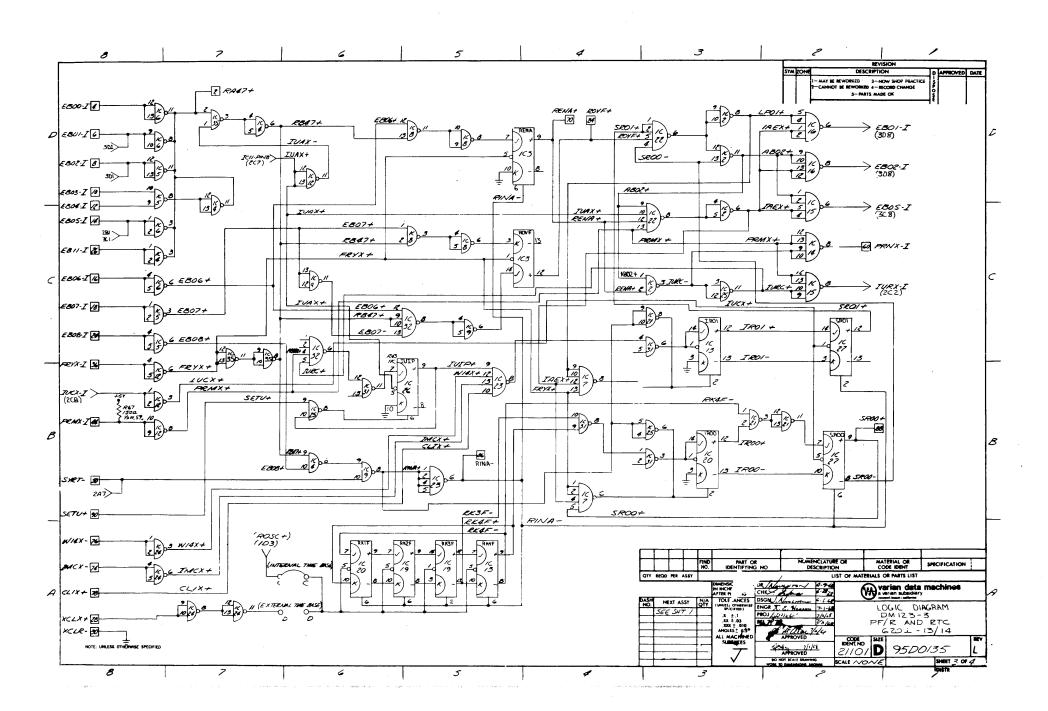


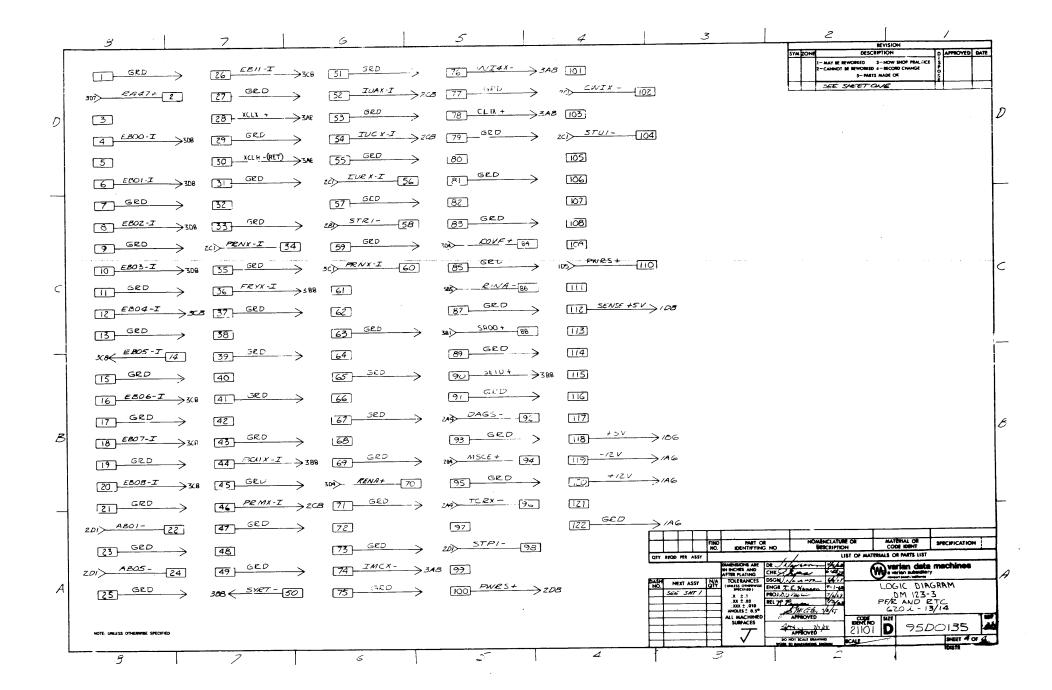


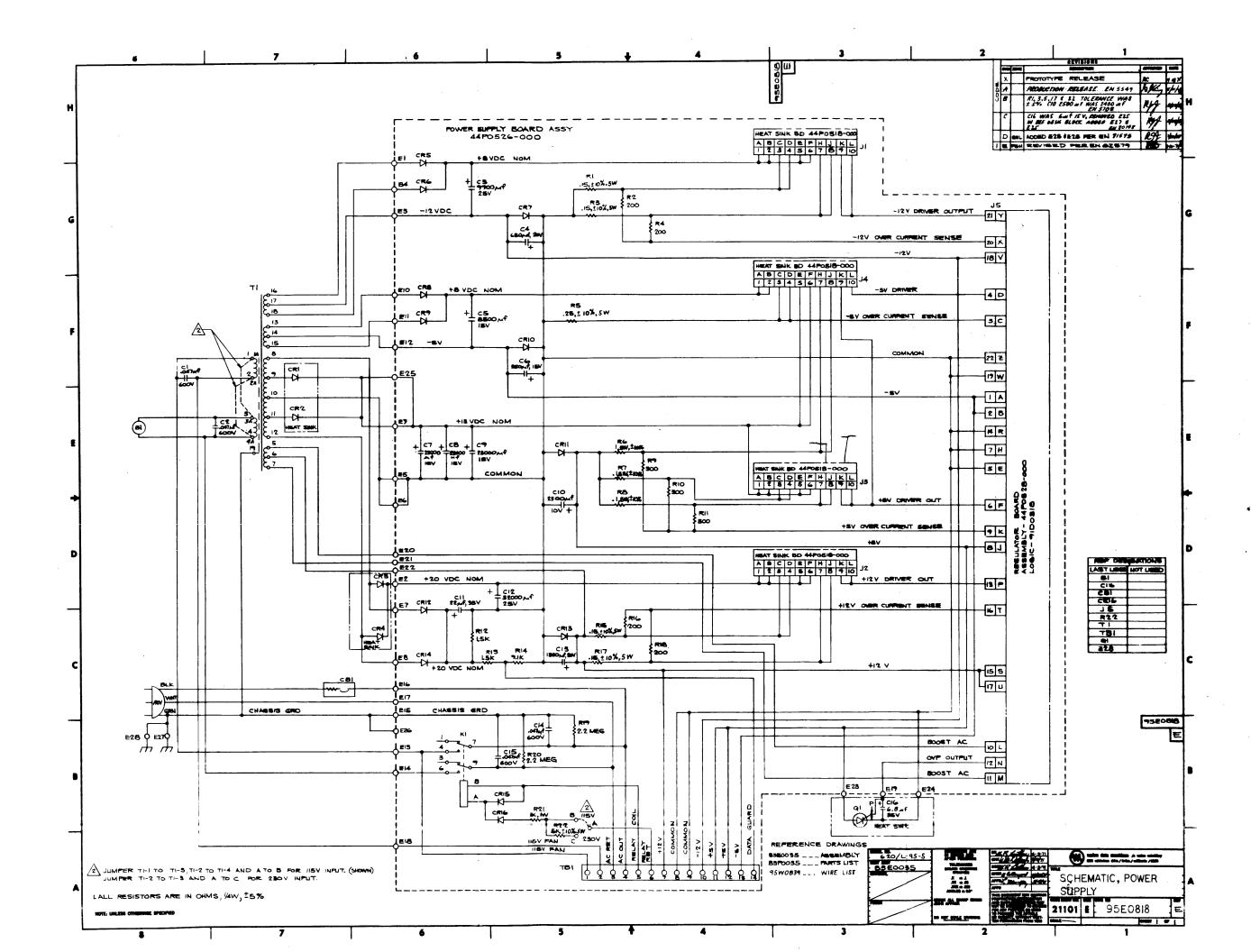


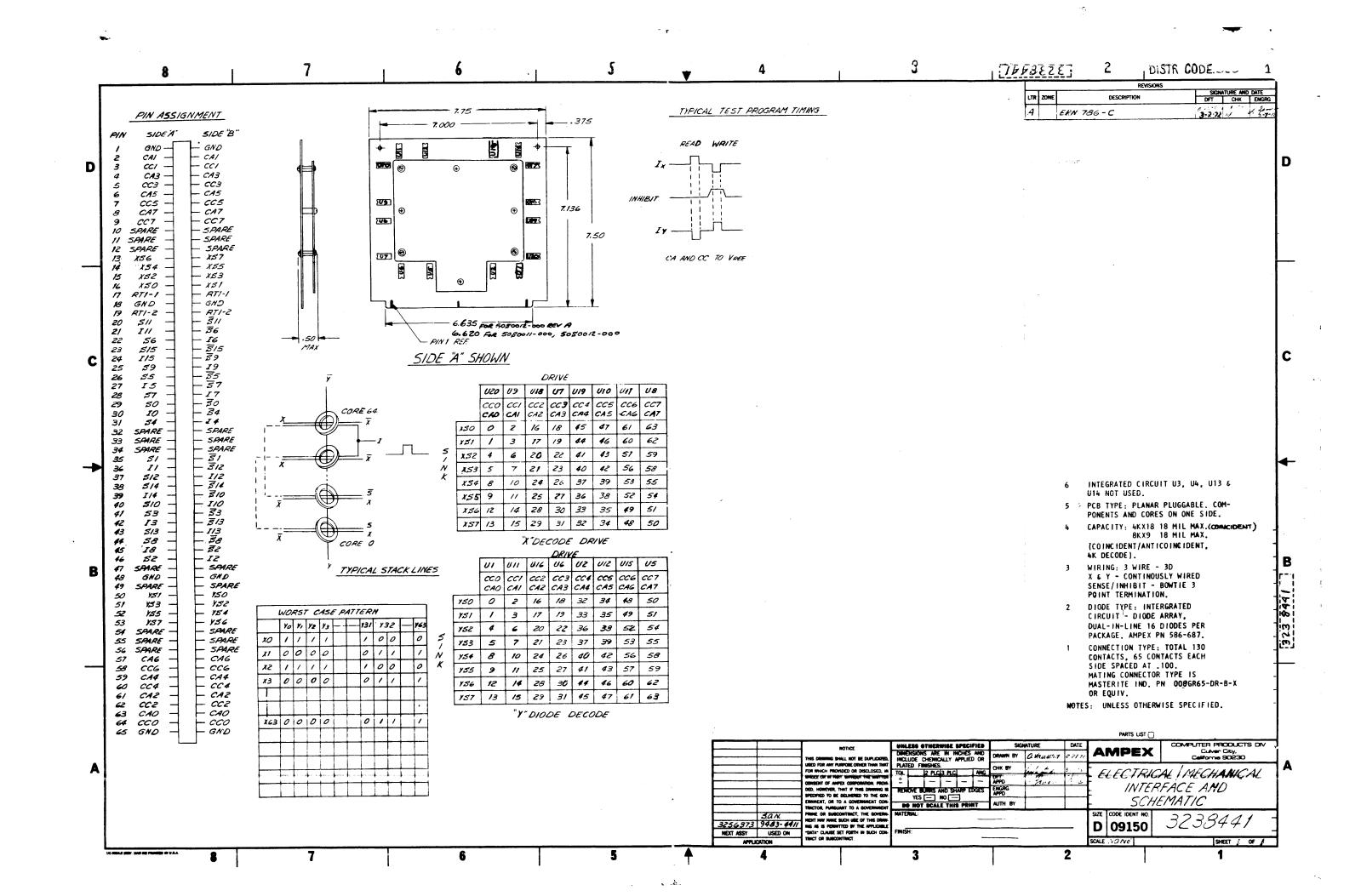












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PAGE 1 OF 3

a varian subsidiary	***	
	ISS	UE DATE <u>6-4-74</u>
MODEL NUMBER EFFECTIVE SERIAL	WES 6/4/14 PARTS DISI	POSITION
620/L-100 ALL	USE AS IS	SCRAP
DEVICE DM342		JCKAP
INTERRUPT TRAP	REWORK SEE	NOT APPLICABLE
TYPE O	F INFORMATION	The second secon
DRAWING RELEASE CHANGE	RECORD SUBSTITUTION OR DEVI	
REASON FOR ACTION	CHANG	SE CODE:
OUTPUT CWIX - (IC34-11) IS OR-TI	i	ANDING CODE 2 EN'S:
PLANE WITH A DTL OUTPUT OF PER		_
GATES MUST BE OPEN-COLLECTOR	1	<u> </u>
GATE ON PER UNABLE TO PULL		
PULLUP GATE ON INTERRUPT TRAI		
ACTION TO BE TAKEN		
44 PO598 P/L-INTERRUPT TRAP	ASSY DM342	
1. UPDATE REVISION LETTER OF	REF DRAWINGS 4	4D0598.
9100362 AND F/N 4000511-0		· · · · · · · · · · · · · · · · · · ·
2. F/N 3 (65N2500-102)		
A. OTY IS: 15 WAS: 1	2	:
B. REMARKS 15: R8-2		
3. F/N 16 (49A0042-000)		
A. OTY IS: 7 WAS: 6		
B. REMARKS 15: 1013,17,21,25	5 29 33 34 WAS 1017 21	05 79 22 12
4. F/N 18 (49A0039-000)	-, -, -, -, -, -, -, -, -, -, -, -, -, -	
A. OTY 15: 5 WAS: 6		
B. REMARKS 15: 1018,22,26,30	0,31 WAS: ICI8.22.26	30.31.34

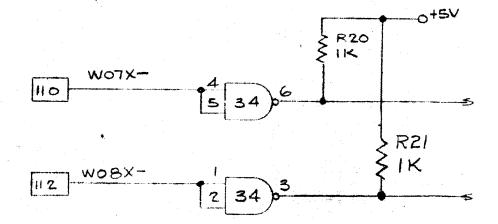
		,		DOCUMENT	S AFF	EC1	ED	Race	
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	IS	WAS			IS	W	AS		
44P0598 44P0598 40D0511	DE C	ADB	91003 97007 97007 97007	12	BUUU	Į.	ABB	RECO# 05366	
DRAFTSMAN	CHEC	CKER		PROJECT E	NGR.	-	RE;	REVIEW BOAR	(D
J. Luther 5-237	4 Blow	fuld	6/3/24	T.E. Hans	on 6-			The Copy Care	14



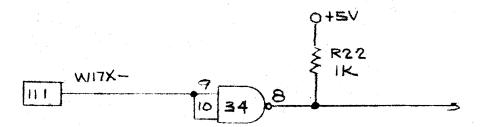
E. N. No. 83017 PAGE 2 OF 3

9100362 LOGIC- INTERRUPT TRAP DM342

- 1. SHEET | REFERENCE DESIGNATION BLOCK LAST USED IS: R22 WAS: R19
- 2. SHEET 2 ZONE B4 ADD R 204 R21 AS SHOWN



3. SHEET 3 ZONE BT ADD R22 AS SHOWN



9700712 ARTWORK DM342

REVISE TO CONFORM WITH CHANGES TO 9100362 LOGIC

9700713 SILKSCREEN DM342

97D0714 SOLDER MASK DM342

44 D0598 ASSEMBLY DM342

REVISE TO CONFORM WITH CHANGES TO 9700712 ARTWORK

4000511 P.W. BOARD DM342

- I.REVISE TO CONFORM WITH CHANGES TO 9700712 ARTWORK.
- 2. UPDATE REVISION LETTER OF ARTWORK MASTERS 9700712, 9700713 AND 9700714 PER THIS EN.



REWORK INSTRUCTIONS

E. N. No. 830/7 PAGE 5 OF 5

Reidentify the following revision letters by stamping an "X" over the old revision letter and restamping the new revision letter next to the "X".

Revision Is:

Revision Was:

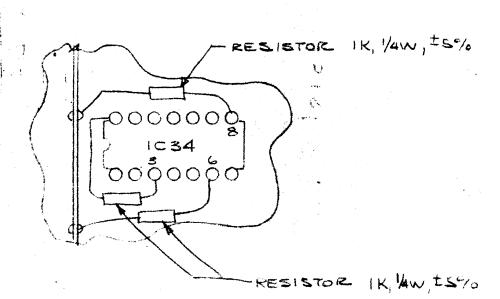
44P0598-000 E

44 P0598-000 D

44PO598-000 INTERRUPT TRAP BOARD DM342

1. REMOVE 1034 (49A0039-000) AND REPLACE 1034 USING 49A0042-000 (74HOI)

2. ADD 3 RESISTORS IK, 4W, +5% (65N 2500-102) AS SHOWN



FORM 96A0013-001-

	NGINEERIN	NG NOTI	CE		E.N. N	10.4	- 1 - 1
					PAGE_	1	OF_2
varian data machin					J BUZEL	ATE 🕳	-17-73
MODEL NUMBER	EFFECTIVE S	ERIAL	009/1	5 !	PARTS DISPOS	пои	
620L	EARLIEST		X USI	E AS IS		SCR	AP
DEVICE POWER SUPPL	OPPORT	אווען /	REV	VORK		NO	T APPLICABLE
		TYPE OF I	NFORMA	TION	t		
DRAWING RELEASE	X DRAWING CHANGE	1 1 1 1	CORD IANGE		SUBSTITUTION OR DEVIATE		STOP ORDER
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TO REVIS							
3. TO ELIMI	NATE PO	SSIBLE	SHO	ETI	UG OF H	DW.	D NEATS
1. TO 400 M							
CTION TO BE TAKE	N						
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2) DELET							
3) 400	HE FOL	LOWIN	16,0	TY 5	HOWN 3	AMI	FACEA
	NUMB				na n		
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1 49		10050-0	03	SPA	CER		
1 50	and the second second	90050-0		WA	SHER		
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B3 E0035 H G

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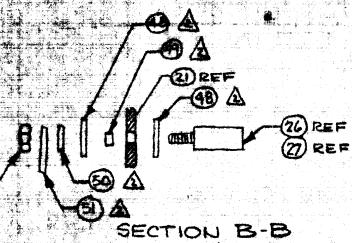
IS

WAS

RECO # 4553

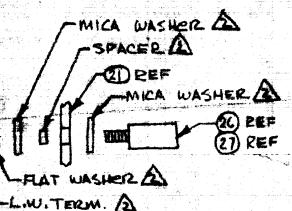
BODES FOWER SUPPLY ASSY

PEVISE SECTION B-B AS, SHOWN BELOW



EXPLODED VIEW (TYP FOR CRI-CR4, QI)

WASI



TUN MAC LE

SECTION B-B EXPLODED VIEW (TYP FOR CRI-CR4, 91) USE MTG KIT F/N 45 FOR Q1

	ENGINEE	ring no	TIÇE		E.N. NO	82500			
Quarian data manhi	inec	* ****			PAGE	<u> </u>			
warian data mechi warian spaidlary					ISSUE DAT	TE 8-15-15			
MODEL NUMBER	EFFECTIV	E SERIAL	PARTS DISPOSITION						
620/L-100	EARL	JEST	X USE A			SCRAP			
DEVICE DM 837		RTUNITY				The core of			
HOCESSOR	ocessor gavi					NOT APPLICABLE			
IDRAWING I	DRAWII		INFORMATION RECORD	, , , , , , , , , , , , , , , , , , , ,	BSTITUTION	STOP			
RELEASE	CHANC		CHANGE	7 1 1	DEVIATION				
REASON FOR ACTIO	ON								
ו ארשיים א		11 18 472	10 A A		* # #	. 1810			
I. IU KE	NOVE	JUMPE	< A-A		* r				
				·····					
ACTION TO BE TAK	KEN								
9700697	-ARTWO	RK-PRO	DCESSC	PRCC	ONTROL	DM 337			
1 PEMON	IE ETC	CH FRO	DM PI-	<i>5</i> 9 7	O FEE	DTHRUA			
1. REMOVE ETCH FROM PI-59 TO FEEDTHRUA									
B. ADD E					15 Table 1				
97DO698- SILKSCREEN - PROCESSOR CONT + DM33									
9100630	5- SILK	SCREE	=N-PK	OCES	SORC	ENVI -DMS			
1. REVISE PER CHANGES TO 9700697									
9700695	9 - SOLL	DER MAS	SK-PRC	CES	SOR C	ONT-DHES			
Marine Comment		She has made a constantion of				A CONTRACTOR OF THE CONTRACTOR			
1. REVISE	PER	CHANGE	5/0	31DC	03/	<u>*</u>			
4000506-BD DETAIL - PROCESSOR CONT - DMSS									
1. UPDATE	= REV	/FTT	ERS O	E DE	TUNDE	*			
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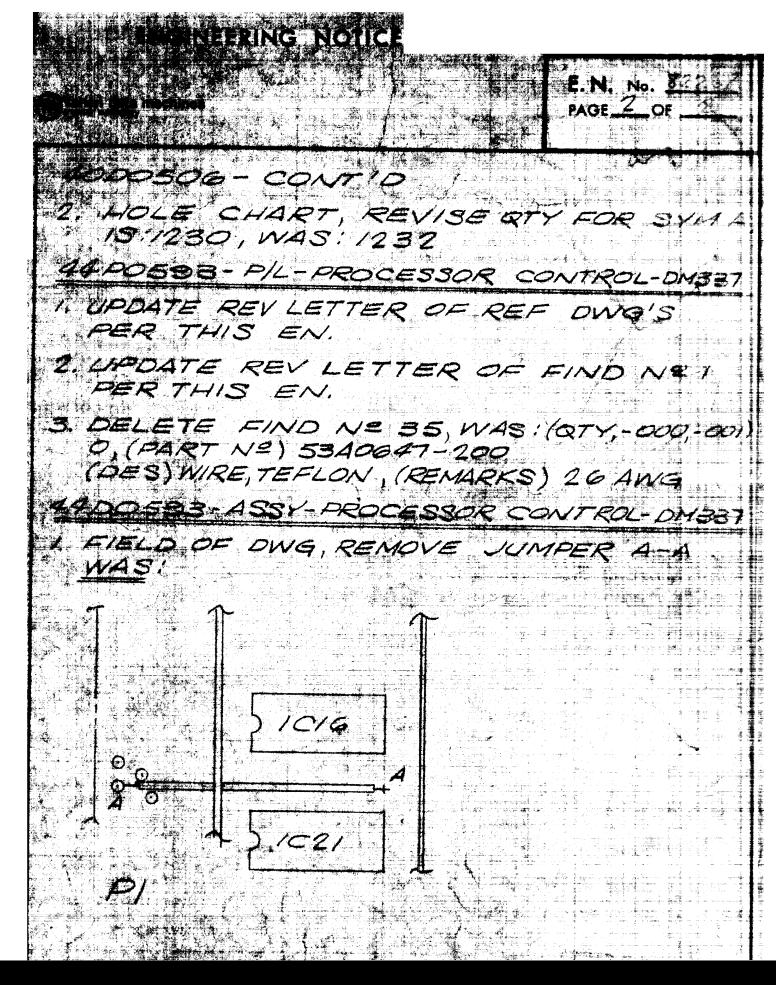
9700698 N PROJECT ENGR. CHECKER REVIEW BOARD DRAFTSMAN

4000506

4400593

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ya varian i	JUDSIDIA ry	•

DRAFTSMAN

E.N. NO. 82644

RECO# OS 220

REVIEW BOARD

RECO# 05190

DBOB

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4000509 9700706

9700707

PROJECT ENGR.

CHECKER

varian data machine	es					PA	GE	OF
a varian subsidiary						ISS	UE DA	TE 3-26-74
MODEL NUMBER	EFFECT	IVE SERIAL	N.	Hahy	PΑ	RTS DIS	POSITI	ON
6201-100				USE AS I	S	1		SCRAP
DEVICE PROC. CONT NO 2	SEE	BELOW *	X	REWORK	5. P/=	EE		NOT APPLICABLE
		TYPE OF	INFO	L RMATION			L	
DRAWING RELEASE	X DRAV	VING F	RECOR			SUBSTITU OR DEVI		1 1
REASON FOR ACTIO						CHAN	ICTE (CODE /
TO ENABLE								equipment the contract of the
INSTRUCTIO				IMIKAT	ING			DING CODE
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ACTION TO BE TAKE					N,			
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ACTION TO BE								
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DOCUMENT	REV.	DOCUMEN	IT .	REV.		REFI	RENC	E DOCUMENTS
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E. N. No. 82844 PAGE 2 OF 5

44 PO 596 P/L PROC. CONTROL NO. 2.

- 1) REVISE QTY AND REMARKS OF FIND NO.4 (49A0008-000) QTY 15 5 WAS 4, REMARKS ADD 1C49
- 2) UPDATE REVISION LETTER OF REFERENCE DRAWINGS AND FIND NO. I PER THIS EXI.

9700706 ARTWORK DM 340 9700708 SOLDERMASK DM 340 9700707 SILKSCREEN DM 340

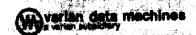
1) LIPDATE PER CHANGES TO LOGIC DIAGRAM 9100360

1000509 P.W. BOARD DM340

- 1) REVISE FID TO AGREE WITH CHANGES TO
- 2) UPDATE REVISION LETTERS OF "ARTWORK.
 MASTERS REQUIRED" PER THIS EN.

4400596 PROC CONTROL NO. 2 ASSY

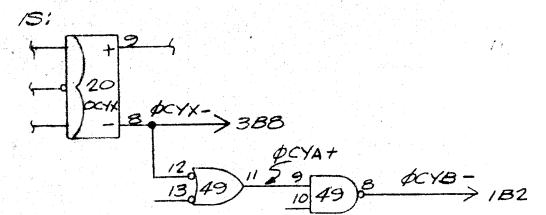
1) ADD 1049 TO F/D



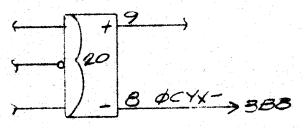
E. N. No. 82844 PAGE 5 OF 5

9100360-LOGIC-PROC. CONTROL Nº2

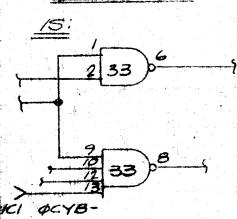
1. SHEET I, ZONE CI, REVISE AS FOLLOWS:



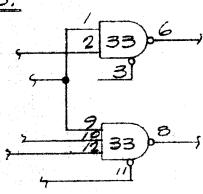
WAS:



ZONE B2



WAS:



2. UPDATE REF DES LAST USED BLOCK; 18: 1C49, WAS 1C48

Warien date machines

REWORK INSTRUCTIONS

E. N. No. 82844-PAGE 4 OF 5

Reidentify the following revision letters by stamping an "X" over the old revision letter and restamping the new revision letter next to the "X".

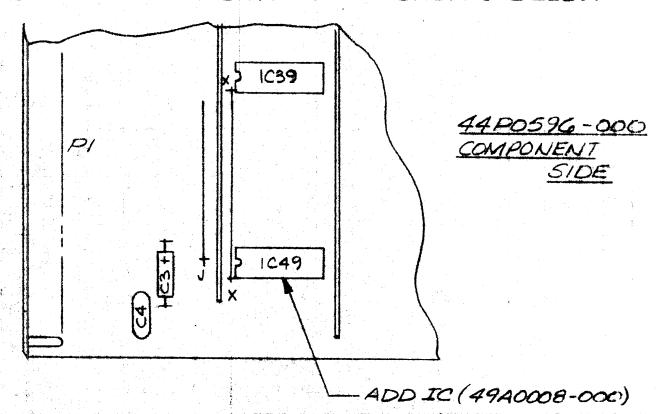
Revision Is:

44P0596-000 F

Revision Was:

44P0596-000 E

1.) INSTAL'L IC49, VDM P/N 49A0008-000 IN SPARE IC LOCATION AS SHOWN BELOW



2) ADD THE FOLLOWING JUMPERS TO COMP. SIDE LISING WIRE, 53A0701-000, 30 AWG

FROM	70
1049-8	1033-13
1049-9	1049-11
1049-12	1C20-B



E. N. No. 82844 PAGE 5 OF 5

SERIAL NO. EFFECTIVITY

44P0596-000 SER, NO. 1566 AND ON.

SIN 1166 THRU 1169, H220 S/N 1451 THRU 1485 · . 1236 S/N 1243 THRU 1337 SIN 1339 THRU 1359 SN 1361 THRU 1368 1/N 1547 THRU 1550 /388